## FIG. 6A

## IKBKAPgenomic.seq Length: 66479

1 CCAGTGCTGC GGCTGCCTAG TTGACGCACC CATTGAGTCG CTGGCTTCTT 51 TGCAGCGCTT CAGCGTTTTC CCCTGGAGGG CGCCTCCATC CTTGGAGGCC 101 TAGTGCCGTC GGAGAGAGAG CGGGAGCCGC GGACAGAGAC GCGTGCGCAA 151 TTCGGAGCCG ACTCTGGGTG CGGACTGTGG GAGCTGACTC TGGGTAGCCG 201 GCTGCGCGTG GCTGGGGAGG CGAGGCCGGA CGCACCTCTG TTTCGGGGGTC 251 CTCAGGTAAG CGATCCATCC AGGGTAGGGG CACGGGAGTG GACCTCTCCG 301 CCGCCGCTGT CCGGGTGAAG GAGACCCGGA GCCTCCTCTG CCTGCCGG 351 GCCGGGGACT GGAGTGCGGG CTGCACCACC TCTTTCCTAG AGCCTTAAAT 401 TCTTTTTGCA GCCTTGCCAC CTGCTCCATC GGGGGCGCTG GGAG GCGCGA 451 CAGCCAGGG ATGCCTGCTG CCCCTCCAGC CGGACTTAAC CCAGCCTCTT 501 GATTGCTTGC AGGGGGTTGA TAATAACGCT GAAAGCGAGA GTATTAATTC 551 ACGATGGAAG GCGGCGGTTA ATAGAGGCTC GGGTGCTGTG GTG/CGGGTCC 601 TTTCTCGCGT GTGAGACTTT TTCGTGGAGG TGGTGTCCTC TGTGCTTCTC 651 CATCTAACGT GGTGTTTTAC GTGGCTTTCT CTCCCGTTAA CGATGATCTC 701 CGTGGAGACA GTGGCTGAGT AATCTTCAGA TCCCAGTACT TAGCAAGTGC 751 TCAGTCGGTG TTGGATGTAG GCCACAAACC GGATCGTAAA GAATTCAACT 801 GTATATTGAC AGCCACGGAA CTAATCAATG AATAGATCCG TATG AAGAGT 851 AAGCAAAAG GCAGCAAAGA CAGTTTTTCA GCTTGGGGAC ATAGAGTAGA 901 AATGGTCTGT CCCCAAATAG TGGGAACTGT CATTTGGGGG AAGAATAGCA 951 AGTTCTTTGC TTTCCAGGTC GCATTTGATG TGCATGTGAG ACATGCTTGT 1001 GATTCTATCA GGAGGTTGAA AATGTGGGTT TAGTGGTAAG TTTGGGCTAA 1051 TTCAGTCAGG GCTAGGCATT TAGGCCTAAT CAGCGTATTG GTGATCTACC 1101 TGGTATATGT AATCATGCAT GTGATGTCTA GCCAAGAGGT GGATAGTCGA 1151 AGGAGCAAGG GAAGAAAATG AAGCAGTTAT CAGGAAATTA AGAGAGAATC 1201 CACGATTGAC CTTTGGTGTG GAGGGATCTT TAGCACATTT AAGAACTGCG

1251 AAGAGTTTGA ATCAGTGGAG GCAGGAAGGT TGGAGGTTGC AGATG TCCAA 1301 GAAAGAGTAC TAATAGGCCT AGGTCCTGTG GCAATATGGA GGATAT TCCT 1351 TTCCTAGCCT GGAAAGAAGT GGAGGGAAGT CTTCCTCCGA GAAGA TAAGG 1401 GAATAAGGCT GATGGGTGTG AAATTTCAGA GAAACTAGTT TTGAGGCGTT 1451 TTTATGATGT TTAAAGATGA AAAACGAGCA GGCACGGTGG CTCAGGCCCTG 1501 TAATCCCAGC ACTITIGGGAG GCAGAGGCGG GTGGATCACT TGAGGTTAGG 1551 AGTTCAAGAA CAGCCTGGGC AACATGGTGA AACCCTGTCT CTACT AAAAA 1601 Tacaaaatt aactgggcat ggtgccgggc gcctgtaatc ccagctactc 1651 CGGAGGCTGA GGCAGGAGAA TCGCTTGAAC CCGGAAGGCA GATGTTGCGG 1701 TGAGCCGAGA TCGCGCCATT GCACCCCAGC CTGGGCAATA AGAG CGAAAC 1751 TCCGTCTCAA AAAACAAAAA AACCTGCATG ATATGTTAGA GGTTCAAGTA 1801 ATTTCTAGCA GTTCTTGAAT ATAATTGTCA CCAAAACTTA CTAAAATCAT 1851 TGTCTTCCTC ACTTCCATCA TATATAAACT TACCTTTCTC TTATCCCACA 1901 TTATATATTA TATAATTCCT ATGACACTTG ACATTATCTT CTGTGTACTA 1951 TTAGGATTGA TTCATCTTTA TTCTTTCTAT GTCATACATA TGTGGGGTGC 2001 CAAGATGAGA GAAGTCTCCT TGGATTAAAG TGACAATAAG ACCGGTGTGG 2051 TCCTTGTAAT TGCTACCCCT AACATAAGTT AGGGACTTAC AATCA TAAGC 2101 CTTAAAGGGA TCTGAATATA AATAACTAGC ACAGTAACAT TTTTTTCCCC 2151 TACTTAGGTA ATGTTATGCA TTTAAGCAAG CCTGATTTTG CCAGA CCAAA 2201 GTAGATGTCT TGTTTAGCAC TCTTTTCTCA CGTTTTATAT TGTCCTGGGA 2251 AAAGCCTGGC CAGAAGAACA AAGTTACTGG AAGTAGTTAT GTCA.GGTCAT 2301 CAGGGTCCTT GAAATGTTGG TCATCATTTT GAAGTAAATT GTTGTCATGT 2351 CCCAGTATTT TCTCTTCCCC TTTAGAACAG TAAATGCTTT TCTAT CTTTG 2401 ATTTCAGTTT TTTTATGAAT GTATAAAACC AGTTTATAAA TGAATAGACC 2451 TGGTGAATAT TAAAGTCATT TCAGATTCTC TTCAACTGCC AGTAT ATAAA 2501 AATGGATTTT CAAATAGTGC TAATCAGTGG GATACCCTTT TGTT TTTCCT 2601 TCATTTGTTC TTTCAACTTT CCCAAAGGAA TAACTGATAT TACATCTTTT

2651 TTGAAGAAAA CATTCTAAAG TTGAGAATCT TGCCTCTCCT AAAAAGAACA 2701 TAAAATAGGT TTCAGAATTC CTAATTTGTA GACCATAACT GTATAG AGTG 2751 GGTCAGGTTG CTGCTATAAT CCATACATGG GTGTGTACTC AGAGAGGTAA 2801 GTTTTTCTT TTCTTGGTTA TTCTGATTCT GACTACCACT TCTTCACCCC 2851 CTGAATCATT TCATTTAAAT AAATATGGTC ATTTATCACT ATTAAGCTAT 2901 TTATTTTCT CTTAGAGATT AATGATTCAT CAAGGGATAG TTGTAC TTGT 2951 CTCGTGGGAA TCACTTCATC ATGCGAAATC TGAAATTATT TCGGACCCTG 3001 GAGTTCAGGG ATATTCAAGG TCCAGGGAAT CCTCAGTGCT TCTCTCCG 3051 AACTGAACAG GGGACGGTGC TCATTGGTTC AGAACATGGC CTGATAGAAG 3101 TAGACCCTGT CTCAAGAGAA GTAAGTTACT GATGTAGAAT GCCAGCATGT 3151 GGGTATGACC CTTGATTTCT CTTCTTCCAA ATTTCTTTCC CCACA TGGTC 3201 TTTCTTTATA TCTTATTGAA TTTATATCCT CCCAAATAAA CATCTTTTGC 3251 TTCATATATA TGCCATGTTA GACATAGCTT AAATCGTAAT CCTTCTTTAA 3301 CTCTGCTGCT ATTTTAACCT AAGTCAGTAG AACTCTGACC TTACTTTTTG 3351 AGTGTGTGCC GTACTTTTA CCCTCTTTGT CATGCAAATT CTGTT TATAA 3401 GAGTGGTTTT TTTTTTTTTTTTTTTTGAGAC GGAGTCTCGC TCTGT CACCC 3451 AGGCTGGAGT GCAGTGGTGT GATCGTGGCT CACTGCAAGC TCCGCCTCCC 3501 CGGGTTCACA CCATTCTCCT GCCTCAGCCT CCCGAGAAGC TGGGACTACA 3551 GGCGCCCGCC ACCGCGCCCG GCTAATTTTT TGTATTTTTA GTAGATGTGC 3601 GGTTTCACCG TGTTAGCCAG GATGGTCTTG ATCTCCTGAC CTCGTGATCC 3651 GCCTGCCTCA GCGCCCGGCC AAGAGTGGTT TTTAATTGGG AAT GAACACG 3701 AAAGTTGCCC ATGGAGCTTT CTAAAAGTTT GAGCCCACAT CTCATGTCAA 3751 CTAAATCAGA ATCTTTAGTG TTGGCTCCTA ACTATATGTA CTTTAAAAAC 3801 CTCTGTGGGT TGGTTTTGAT ATGGTCCCTT GATTATGTTC TTCTACTAAT 3851 ACATTITAGG CAGTTACATC CTITAGTGCC TTTTCCCCAT ACTA TAGAAA 3901 TCTTAGAAAA GCATAGCTAT TAGCATCATA TTTTAGTGGA CAAT TTTAAA 3951 GAGACCAGGC TTATTGTTTT TGTTTTTGTG TTTGTTTGGC AAAA AGGTCA 4001 CATTACCTAT TTTTCTTGTT AGAGATGACA GAGTAGTGAT ATTT CTCAAA

4051 TGAAAGTTTG GATTTTCATC TAGAAAAAAT ATTTTTGAAA GCTTTTATGT 4101 AATAAAAGAA GCATTAAAAA GTATTTCTGG AAATGTTATC AATTAT TCTT 4151 GAAAGTAGAC TGGGTTAATT TGCTTGTGTT TACTTTGGTG AAAGG TGAAA 4201 AATGAAGTTT CTTTGGTGGC AGAAGGCTTT CTCCCAGAGG ATGGAAGTGG 4251 CCGCATTGTT GGTGTTCAGG ACTTGCTGGA TCAGGAGTCT GTGTGTGG 4301 CCACAGCCTC TGGAGACGTC ATACTCTGCA GTCTCAGCAC ACAA CAGGTA 4351 AGTGGAAGAC TCCAGTGAGG GGGGAGTCTC AAGCATCCTC AAATAGGTTA 4401 CTTGCTATTT GTGGAAGTTT TCAAATCAGT AGCCATAATA GTTACACTTT 4451 TGCTAATTAA TTTTTGCATT ATATATTTCT TTATTTAAAA AATTGTT.AAC 4501 ATGGCTTTAT CTATATGTTA AGATTCTTCT AAAACTGAGT TTTGTCTGCT 4551 GCATCTATTA ATCAGAGTGA TCAGAATGTT CCAAATGAGA ATATA TTTTT 4601 TTAAAAGTTA AAACTGGCTA TTCTTATGTG GTGTAGATCA CCTCT TATCA 4651 GACCCTCATC TTGAGTTGCA ACCTTTGTTT CTCAATTTAG GAAGTCTTTG 4701 TITATCTGAC TTAGATTTTC TGTTATGAAT GTTGATTGGC TAAATT TAGA 4751 GTCCCTGAAG TCTAGGCACT AAAGTAAATA CATTGTCATT ACCTGCACAT 4801 GTGATGACTG CCAGTAGAGC TAGACTTCAA GCAATTGCTT CTTTCTCTAC 4851 TTTAGTGTAT AGTTGAGTTT CTGATTTCTA TCCTCACCTT CTTAACAGCA 4901 AGGGTTTCAA ATTACACTTG GCTGATTCTT TAAATCTTCT TCCAT TACTT 4951 CATTAGTTGT GATCTCCTTA ACATTGATTA TGTCACAGAA GTTAGAGTAT 5001 TACTAATAGT AGGATAATGA TAGCAGCTTA CATTTATTAA CTATCATGTG 5051 CCTGGCACTT TITAAAGTGC TTTTCATGCA AATTTATTTA ATCTTCACCA 5101 TGACCTTATG CAGTAGGTTG TTGTTTCCTA TTCTTCAGAA GAGGCAGTTA 5151 AGGCACAGAG TGCTTAAGTA ATTAGACCAG GGTCACACAG TAATCAAATG 5201 GGGTTTGACC CTAGCAGTCT AAATCTGGCA CCTCTGCTCT TAA CCATTCC 5251 ATTTAGTACA ATCATAAACC TTTACTTGCA GTTCATGGTG GGAAATATCA 5301 AACTTGTCAT ATACAGCTTG TTTTTTTTC GTATTTGAAA GATAGATGCT 5351 TTTACTTTCC AAACATTTTG TAGCATTGTT TCCTGGTTAC TGAG CTCTTC 5401 CAGTCTATTT ATCTTCATTT AATGGTGCTG ATTCTGCCCT TTAGTGGCTT

5451 CTCAATTGTC TGAAAGGTAG AGCCCACTAT TGTGCCTTAT AAGCCCCTTT 5501 CACTATCTGT TCCCCACATT CCTTTTTAGC CTCATCCCCC CATTGTTCCT 5551 GTGTGTACGT AAACCTTATG TTTTAGTTGC AGCTGATTTT TAACTGCTCT 5601 TTTTTCTGGC TTTGTGCCTC TACACTGTGT TTTCTTCCTG GTCTCTCTTT 5651 CCTGTCCTTA TTACCACTCT TTGAAACACG TCAGAAAAAC TTTTTCTGGA 5701 CTTTGGGCCA CTTGTCATTC CCTGTGCTGA GACGCATTTT GCTTTCCAGA 5751 GATCTTGGTC ATTGCTGTTA TCCTCTGTAG GGTCTTCTTT TATCTCCCTC 5801 GTGAGACAGC TCTGGGAAGA AAAAGATATT TATTTCTAAT CCCTGTGCCT 5851 AATAACAGGT CTATTCTCTT GATATCCATT ACTGAAGAAA TGTTTGTTGA 5901 GTAAGTTCTT GTTTTAATTT TTAAATATAA ATTTTTAATT TTTATGAGTA 5951 CATAGTAGGT ACATATATTT ATGGGCTACA TGAGATGTTC TGATACAGGC 6001 ATGCAGTGCA AAATAACCAC ATCATGGAGA ATAGGATATC CATCCCATCA 6051 AGCGTTTATC CTTTGTGTTA CAAACAATCC AATTACAGTC TTTTAGTTAT 6101 TTTAAAATGT GCAATTACTG TTGACTGTAG TTACCTTGTT GTGCTATCAA 6151 ATAGCAGGTC TTATTTATTC TATTTTTTT TGTACCTATT AACCATCCCA 6201 ACTTCCCTCA GCCCCTCACT ACCCTTCCCA GCCTCTGGTA ACCATCCTTG 6251 TACTCTCTGT GTCCGTGAGT TCAATTGTTT TGATTTTTAG ATCGCACAAA 6301 TAAGTGAGAA CATGTGATGT TTGTCTTTTT GTGTCTGGTT TATTTCACTT 6351 AATGTAATCA TCTCCAGTTC CATCTATGTT GTTGCAGATG ACAGGATCTT 6401 ATTCTTTTT TATGGCTGAA TAGTACTCCA TTGTGTATAG TACCACAATT 6451 TCTTTATCCA GTCATCCATT GATGGACACT TAGGTTGCTT CCAAATCTTA 6501 GCTATTGTGA ACAGAGCTGC AACAACATG AGAGTGCAGA TATCTCTTCC 6551 ATATACTGAT GTCTTTTCGT TTTGTTTTT TAATTGTTTT GATTGAAGTT 6601 GCAGTCAGTT TITACTGAGA TGCTAGTGTT TGAATCTCTC TTTTCAATTT 6651 TCTCTGTCTC AGCTGGAGTG TGTTGGGAGT GTAGCCAGTG GTATCTCTGT 6701 TATGAGTTGG AGTCCTGACC AAGAGCTGGT GCTTCTTGCC ACA GGTAAGC 6751 TTGTTACTGG TGCCTCACTG GCTTTTTTAA AACATTATTC CAGA TGTCTT 6801 ACAGGCTTCA TCAGCTTTAG GCTGCTTGAA TTTCAAAAAA TTTCTTTGAA

6851 CCAGTATAAT ACCAATTATG AACCAGTATA ATACCAATTA TGTATGTGTG 6901 TGTGTATATA TATATAAAAC GTAGAGTGAT TTTTTTTTGG TGACTGAAGT 6951 TTTGCCTCTT AGTCTATCAT TATAAAAAGT TGTTTCATGT AACTTT TTAA 7001 GTCTTTGGGA GTAAGAAACA AAGTCATAAA ACTTGGGGAG GCTGCTAAGT 7051 CCCCAGTTAG AGTTAAAAAT GTCAGCAATA TGTATTTTAA CTTATTCTAA 7101 GAGTTGCTGT ATGGACACAT TCTAAAAGCC CTTCTTGGGT TCTGTTGCTG 7151 TTTTCCCCT TTAAGTCTCA TCATTCCAGA TGAGTTTAGT AAACCAGCTC 7201 CACTGATGAC ATTTATATTT AGAGGTATCT TGGGGACAAG GAGTGTTGAA 7251 GTTAGTGGAG GAGGGCTTTG TGGACTTTTA AGTTCAACTG TACACACATT 7301 AATAGCTGAG CATAAGCACC AGGTGACTTA TCTAGGGAAA GCTTTTTGGG 7351 GTTTTTGTC ATTGTTGTTT TTTTAAGTCA AAGCATTTTG GATGAATTCT 7401 GTCTGCTCTG TTCAGACTAA CTCCAGCTCC TTAGCTTACA GTGCCATAGG 7451 TACTTAGGAA TGGCAAATTT GTTACATGAA AACAAAATCA TTTTT GTTTG 7501 TGTTTCTCTA AGGTCAACAG ACCCTGATTA TGATGACAAA AGATTTTGAG 7551 CCAATCCTGG AGCAGCAGAT CCATCAGGAT GATTTTGGTG AAAGTAAGTA 7601 TAGCTTTGTG CAATATTTTG TGACCTACGT TTCTTCCCAT TTTTGACCAT 7651 TTCCTTGTGC ACTAATAGCC ATGTCATTAG GCCAAAGAAC TGTGAAAGTT 7701 AAACCCCCAG CTATTAAATG TCTATTAGCC CAGTTCCTTC AGCCCATCCC 7751 AAATCTTAAA AGGCCTACTG ATGCCTCTCC AGGTCTGAGG GTTTAAGGTC 7801 ACTTAGATAG TTATTACCCA AACCCTAGGA AAGTCTTAGG CTGGGCTTTC 7851 AGTGAAAGGG ACTGTACAAG GTAGTATTTC TGGGATACAG TTT TAGGGAG 7901 AAGAAAGAA GAAAGATGGA ATAGAAGGCT GGTTTTTGTT ACTACGATTA 7951 GATCCAATCT GCATTTCCAT GGGAACAATC AGATTATTTT CTTGCTAAAA 8001 TCTAGCCAAG GTCATCTGGG CATTAAGGCT GTGGGGGTAT TGAAGGGCAG 8051 TGCAGGAGAA GAGAGACGCT TATTAAGCAT AAGCTTTGGC CATCTTGAAG 8101 TCACAAAGTA GCTGGCCTGA TTGAAGAGGG ATGGGGAAGA AGATGTTCCA 8151 ACTTCTGTTA TGGTCTAACT TCCTGCCTTC TTGCTCCATC AACTCTGAGA 8201 AATCATITAG ACAACTTCTA CCCATTTATT TACAAATAAT GTATTTGTTC

8251 AGAAATAATT TTGGAGGGCT GGGCACAGTG GCTCATGCCT GTAATCCCAG 8301 CACTTTTGGA GGATGAGGCA GGAGGATTGC TTGAGCCCAG GAGTTTGATA 8351 CTAGCCTAGG CAACGTAGGG AGACCCAGCA TCTACAAAGA ATTTAAAAAAT 8401 TAGCTGGGCT TGGTGGTATC AGCACAGTAA TGACATGATG TGCAGGTACT 8451 GGGGTAGCAT AAGGGAAGGA AACGAGTAAC TAGAGAGGGA TGATTTATTT 8501 CCCCTAGGAG GCCAACTTGA GCTGAGTCTC AGCTGAATTG GTGTTTGGGTA 8551 GGTGAGGGAT AAGGGTGGGG AGTAGTCAGC TGAATTGGTA TTGGGCAGGT 8601 GAGGGATAAG GGTTTGGAGT AGTCAGCTGA ATTGGTATTG GGTAGGTGAG 8651 GGATAAGGGT GGGGAACAGT CCAAGCAAGT GAATGTGTCC ATTTCAAGTG 8701 TCCATTTCAA GGGAGGGTTA TTTCATAGAA ACATTGTGGG TTACTCAGGG 8751 AACTGTGAGT AATTCAGCAT TGCTGAAGTG GCAGAATGTG AGTGTAGAAT 8801 GAAATAAATG GAACAGATTT GATTGAGTTT GTAGTAGGGA ATATGGACAT 8851 TGAGTTATAG TTGATCAGCC ATTACAAGTT TTGATGATAA GAGGTTTAAA 8901 GAGATTTATT TAATAGAAAG ATGGCTCGTG ATGGCATATT TTTGTTTGTTT 8951 TTGTGTGTGG AGAGGGAAGA GATGAGAGGC AGGGTGATCA GGTAGGAGGT 9001 TGCTACAGGA ATCCAGATGA AAGATAAGGA AGGTTTGTGT GGGGCTAGAA 9051 GCAGGAATCA TTCAGGAAAA AACTTGATTC ACAATGAGGA TGGGAGTACA 9101 TITTTTAGAA TTAGCTGGGA AACTTTTTTA GAATATATGT GCATGATTCC 9151 CCTTCTGCCC TAGGCCAGTT TGAGAAATAC CAATTTAGAA AGTGAAATAA 9201 ATAGGCTTTG CGTATGTAAG GTGAATAAGA AAAAGTTGAG CAGGACTCCA 9251 GCCAGAACCT CAGGTGTTGG GAATAAAGAT GCCAGTAACA GGGAAGATGG 9301 AGAAGTGCTG GTCTGTAAGG GGTGGGTGGT GAGATCTGTT ITGGATTTGT 9351 TGAAGGACCA TATGTGATTG CCATGTGGAG TATGCAAATA TAAGGCTGAA 9401 GCTCAGGAGA GGCCAGAGCT ATGGACTGAG AGTAGTGGGT ATGTAGGAAA 9451 TTCTGACAGT TTTGGGAACA GATGGACTGT CTCAGGGAGC AGATGCTGTA 9501 CAGGAAGAGT CTAGAATCCA GGGTGGAACT CTGGGGCATC CAGCTTTGAG 9551 GACAGTCAGA GAGAGAGTAA CAGCACAG TATACTTTGG GATGGGAAAG 9601 TGCTCTGGGC CTGGTGTTTC CCACTGACTT TTTCACACAA ATCCTAATGC

9651 AGTAAATCAA AGGAAATGTA GGCCAAGTTA AGATCTTAGG TCTCAGAAAT 9701 GTGTTTCTCA GTACAAAAAA AAAAAAATCA TTCTATGGAG TGATGAATAT 9751 TTTTCCTCTA TCCTGGGGTC AGTAGACTTG TTCTGAAAAG GGCTAGGTCA 9801 TGAATATGTT CAGCTTTGCA GGCTGTATGA TCTGTGTTGC AGCTGCTCAA 9851 TTCTAATGTT GAGGTGTGAA AGTTATACAT GATACATAAG CACATCTATG 9901 TTCCAGTAAA CGTTTGTTTG TAAAAGCAGA TGTAGGCTGT AGTTTT GCAA 9951 ATCCCTGCTG TAACCCCATC ATTTCTTGTC TTCCATTGGA AAAGTT CTCT 10001 TTCTTCATTC CTTGGTCCTT AATCTTTCTG TGGAAACTTG CAGATAGAAG 10051 CCTGGGGGTT TGCACCAGGA TAGTCACTAC CATTTGTACG CAGCAGCAAT 10101 TGAGGTACTG TAGCACTTGG ATGTGAGCAG ACAGGAAATG GTCATATGGA 10151 CCCATAATTT ATAGGAATTG CAAACAGCCC TGCTTCATCA GAATCAGAAT 10201 CAATGGCAGG AGGAAAGTAT TGGGTCCTGG ATTAGGTGAT GTTTTCAGGA 10251 CCATCTTTAT TGTGCTTCTT GCAAATGGAT CCTACCTCCA GGAACAGAAG 10301 GGTTGTGTTG TTTCAGCAAC TCTGCCTAAT AGTTTATATA AGAGAAGTGT 10351 TACGATCTAG AAAGAACCCC AGTCAGCCTG GAAGGCAGAA GACCTGTGTT 10401 CTACTTTTG GCTCCACCAT TAGGGAGGGT CTCAATCTCT AAGTCTATGT 10451 GAGGAGCTGT TTTGTGACCT GCAGCCCCTC TATCACCAGT GAGAGCTTGC 10501 AATCAGAATT TTATTCCCAG TTCTCATCTT GGGGTTTTAT GTTCCGGACA 10551 TATTTTGTAA ACTCTTTATG TTTCATTCTT CTTACTTATA AGGTGAGGGT 10601 GAGATCGCTG ACTTGTGTCA TCAAAGAAAC TTGGAATATG TAAGATGGCA 10651 GTAAAATGCT TTCCAAAATA AGGAAGGGCA TTTCAAATTC TTCAAAGTCA 10701 CTGCTGCATA TAATATGAAA TGGGTTTTGT TTGTTTGTTT TGAGATGGGG 10751 GTCTCGCTGT GTTACCCAGG CTAGAGAGTG CAGTAGTACA ATCAGGGCTC 10801 ACTGCAGCCT TGAACTCCTG GGTTCAAGTG ATCCTCCTAC TTTAGTCTCT 10851 TGAGTAGCTG GGACCACAGG TGTGTGCCAT CATGTCCAGC TTATTTTGTA 10901 TACTTTTTGT AGAGATGGGT GTCTCCCTAT GTTGCCCAGG CTGGTCTCGA 10951 ACTCCTGGAC TCAAGTGATC CTCCTGCCTC AGCCTCCCAA AGTGTTGGGA 11001 CTATAGGCAT GAGCCACCAT GCCCAGCCTG AAACATAGGT TTCTCAAATA

11051 TTGACTGCTG GTCAATTTAT TGAGAGGCGT TAGAGGACCT GAGTAATTGC 11101 CAATGACTAA CTTCATGAAG AATAGCAGTG AAACTGTTTT TGTTT CATTT 11151 CATGTGGCTT ATTAGTTGTC TTGCCAATTG TTCTGTAGGC AAGTT TATCA 11201 CTGTTGGATG GGGTAGGAAG GAGACACAGT TCCATGGATC AGA.AGGCAGA 11251 CAAGCAGCTT TTCAGATGCA AATGGTAAGT TTGGTTTGAT GGAT AAAAAG 11301 CCTTGACTGG AACAAATGTA AGTTTGCCAC CCACCAGGAA CTCTTTGGTG 11351 TCCACTTAGA TGCCAGTAAT GAACAGTTCT CTTCTGCTTT AGTAAAACTG 11401 CCTAGAACCT TCAGGAAATG AATCCCTCTA GAAAGATCCT TTTT TCCTT 11451 GTTATTGCCA AGTTGCTTTG TGATTTATTT TCATAGTAGC AAATAATTAT 11501 AACCAATATT CATCACCCAG TTTAAAAAAT AAAACATCAC AGACAAAGGA 11551 AACCCCTGT GTATCCCGTC CCGATGTCCC TCCCCTTCCT CTCCAGAGAG 11601 AGCTGCCATC CTTCATTCAC ATGCATGTTC TCATACTTTT CCCATATATG 11651 TGTATATTAG ATATTTTCT TTTTCTGTTG GATGAAACTC TTTGTTTTCC 1701 TTACTTCTGG ATTGGAAAAT TCTGAAGACC ATATAATGAT GTCTTGATGA 1751 CTCAAGGCAG GACTTTTTAA TCTTCTAATG TAGGCGGGGC GGC CCCTGAA 11801 GGCAGAGGTG TGTGGACACA AGAAGAGTGC AGACTCTTGG GG CACCTGGG 1851 GAAGTAGTGT CCGTGTCACA TTAAATTCAT TTAAACTCTT ATATTTTATT 1901 TTAATTTATA CAATATGAAT ATTTTTTAAA ACTATGAATT GAAAAGTATT 1951 ACCCTTGAGT AAAATTAATG CCCCAAGAAG ATGTGCCATA TITACCCTCT 2001 GGCACACTAC CAAGTACCCC CAGGGGCATT ACAGATCTCT GTTAGAAAAG 2051 TACAGATTAC ATTATCCTCA TAACATTTAG AAGCTATGAG ACCT TGGCAG 2101 GGAAGTTTCC TAATGTTTCT GAGCCTCAGT ATTCTCTGTA AAGT GGACAA 2151 CATAATGTCT CCTTACAAGG GTTGAGATGG GCAGGTAATA GCATATATAA 2201 AACAGCTATC ATAGCATCAG CACAGTGTAG GCACTCAAAT GGTAGTTGCT 2251 GCTTTTGTTT TAGTAGACAA ATAATTTTTG AAACTTTTTA AAGCGTAGTT 2301 TTTATTTCAA AACAACTTTA TTGTGAGTAA AATATGCATA GTGGGTCTAA 2351 TITAACATTC TGAAAGCTAT TGACTTATTA GAACAGTAAA GGATTATTAG 2401 AGGGCAGAAA CATGGAGTAA GTACTCTGAG ACACAACCTT GCTTCTTTGG

12451 GGGTGATCCA CTACAACTGC CCAGCTTTGG ACAAGTGGTT TTCATGTTCC 12501 CCTGATTTT AAGTGATTTT TTTTTTTTT GGCAGGACTT AAAAGGTATC 12551 CTTGACTAAA CAGGAACTTG ACCAAGTAAA TAGTTGGTGC AATTTGAATA 12601 TTCTTCTTG CTATAAGCAA CAAGTAAATT ATGGTACAGC TTTCTAAGAC 12651 CATATCTTTT CGATTTAAAA ATAGCACTTT ACTCATACAT GTTATGACAT 12701 GGGTAAACCT CATAAAGATT ATGCTAAGTG AAAGAAGCCA GTCATAAAAG 12751 ATCACATATA ATATGATCCC ATTTGTATGA AGTGCCCAGA AGGGGCCAAAT 12851 TGGGGAAGGG GTGACTGCTA ATGGATATGG GGTTTCTTTT GGGGATGATG 12901 AAAATGCTCA AAATTTAGAT TATGGTGATG GCTATTCAAC TTTGTAAATA 12951 TACTTTAAAA ACATTGATTC TTACCACTGA GTTTAAACAA CCAAAAAAAA 13001 ATCCCAAGGT GCATTGAATT GTGTACTTCA AATGGGTGAA CCTTAATAAT 13051 ATGTAAATTA TATCCCAGTA AAGGTGTTAA AAAATAGTAC TTTAAAGGAA 13101 TCTATGGTAG TTTTGAAAAT AAGGCAGTTT TCCATACTTT GTTAAACTCT 13151 GGAGAAGATG ACACTTTACT ACTGGTACCT GCTAGAGTAA GACTTATCTA 13201 GTATTAACAA AATTAGGGTT TATTAATGGT ATAGGATGAT CCAG GTAATG 13251 GGGGAAAAAA ACCGAGCATC CTGTTATCTA ATGTACTATC CAGTAAACTA 13301 CTCTAGCTTT TTTTCATGAA CTTTTTCTAA AGGCTTTCTA GGGCCTCGTC 13351 TTGGTTTGAA AGTTCACAGC TACCCTTCAG AAAAGAAAAC AAAAATCCAT 13401 GGAGTAGGCA GATACAAGTA CTCATGTGAG CATAATTTAC TIT GATTTTT 13451 TAAGTTGTGT TATTCTAGCC CTCAGCCTGT TCCCTGCCTG GGCTCTCCTA 13501 GTGCCCAGTA ACACTGATTC AAGAGGTTGC ATTTAGCTGG GCACAGTGGC 13551 TGATGCCTGC AATCCCAGCA CTTTGGGAGG CCAAGTTGGG CAGATCACCT 13601 GAGGTCAGGA GTTCAAGACC AGCATGTCCA ACATGGTGAA AT CCTATCTC 13651 TACTAAAAAT ACAAAAATTA GCCAGGCATG GTGGCAGATG CCTGTAATCT 13701 CAGCTACTTG AGAAGCTAAG GTAGTAGAAT CACTTGTACC TGGGAGGCAG 13751 AGGTTGCGGT GAGCCAAGAT TGTGCCACTG CACTCCAGCC TGGGCCATAA 13801 AGCAAGACTC CGTCTCAAAA AAAAAAAAA AAAAATTGGG TGAGAGGGAG

13851 GAATTGAGGA GGATACCAAG GGTTGGGCCT GAACAAATGG AAGCATAATT 13901 ATATGTAGAA ATTTCTATGA GCTACTCTTC TAGAATAGAT GACTCAATAA 13951 TACCCTGCTT GCCATCTACG TTTTCTGTCC TTAATTATTT CCAGITCTAT 14001 TTCATATAAT GCCTATTTCA GGCCTTAACC CTTCAGTAAA GGAGGTTTGG 14051 TTTCTATACC CTAGGACAGT TTCATTGAGA ATAAATTTTG TTAGGC TACC 14101 TATGTATTCC CTACTGTGCA GACTACAGTA CAGTACTAGC AGAAT TCTTA 14151 GGCTGTTACT AGAATATGAT GATGAATGCC CGGGTGGTCA TCTGTCTCCC 14201 ACCCGGTAGA GTTGGCTTCA GGATTGAGAT ACACGTGGCC CTGGAGGAGA 14251 CGTTTCTTCC CGTCATGCTG CAGAATGAGA ACATTTCCAT GTTTT CGTCA 14301 TTGTCTGCTG CTGCCTTTAC CACCTCTGTG GCTCCTCCCT ATTCACCTTG 14351 TTCACATCTT AACTCATCTG TGCCCTGTTG TGAAGCTTAC ACAATATGTA 14401 AACAAAACTC TACCCTGTTG GACAAATGGA ACACTTGTTT CCTTGTTGTA 14451 GTTACCTGAT AGGTTCCTTA GCTCATTATA TTCAGGATCT AGATCTGTAG 14501 CTCTTTCCT CTTTTGCTGT TCTCAGAGGC CACTTTTTT TTTTTTAATG 14551 CCGAAAGGAG GATTTTGTTT GTTTTACATT TTTTTCTTCT TTTTGATGAT 14601 TTCTGCGTTC TAAGAACCAA CCCTTGGATG GTTTCTGATT CTAGAGGCAG 14651 GCTTTCAAAG TAGCTTAAAC CTCTTAAAAA ACATCTGTAT CTAGTGGTCT 14701 GAGGCTTGTT TGATTCTGGG ATACTTAAGG TCCCCCAGTA ATATTGGTGT 14751 TTGTTCCCCT TTTTAGCATG AGTCTGCTTT GCCCTGGGAT GACCATAGAC 14801 CACAAGTTAC CTGGCGGGGG GATGGACAGT TTTTTGCTGT GAGTGTTGTT 14851 TGCCCAGAAA CAGGTATGGA AATATATTGC AGTTAAACAA CAATAAAAAA 14901 TTTTTATCTT ATTAAAATTA AGGAAAATTT TCTTTCTTTT GCTTTGAGTA 14951 GGGTATTAAT TATACATATG AGGCAAGGAT GTGCTGCTTT AAATGTGAAA 15001 TGAGGTTAGA GTTAAGAATT AGAAGAGTCC TTTGAGGCCA TTTGGTCCAT 15051 CCTCCTACCT GGTGGACACA AATTTGTAAC AAAATTAATC TAATTGGCTA 15101 TGTAAAACCA TGGCAGTTTT TATTTGTAAG GAAGGTGTTT GAATAGTTCT 15151 GAATTGACAA CTTTTATCAT AATGTTTTAA GTGTGTATGT GTGTTTGACT 15201 CCACTCCCGC ACAGGGGCTC GGAAGGTCAG AGTGTGGAAC CGAGAGTTTG

15251 CTTTGCAGTC AACCAGTGAG CCTGTGGCAG GACTGGGACC AGCCCTGGCT 15301 TGGAAGTGAG TGGGAGAAGA AACCTTAGAG AAATTCTTGG AACCAGAGTA 15351 GAGGTGGTGG TACACATGGA TACAGATGAT ACAGATGTTT GTGTAACACA 15401 AAAGGATTTT TACGTTTCTT CATTTGGTTA TAAGGCTGTA TCTATCTTTG 15451 TITCTTCTTT TTTTTTTTC TTATTCCCTG AAGTCTGAAT TCAACTCGAA 15501 TAGTAGATTT TACGCTTCTT CACAGATTTC ATTGTTCCAA GGCCGCATAT 15551 ATTTTGCATT CCTAACTCTT AAAAGGCTGT GGTTTTAAGG CAGGGTATAT 15601 ATGAAGCCAT TGTACAGAGC AGAAAATGGT GTTTAGAAGG GAAGGCCCAG 15651 TTTGCAAGGC TCTGTGGGGC AAATGGTGCT TTTGTGGAAA TTAGGGAAAG 15701 AGCCTCCTTC CTTGGCACAA AATTCCTACA GCAGAGGATC TGCTTGCCAA 15751 GGAGCATGCA GGCTGGATTC AGACCCTGCT CTTTCCTTCC ATTCTCCTCC 15801 TTGGCCCAGT ACCCTTGTGC AGGTTACAAT TTGCCTGTCA TATGTGGCTG 15851 CCTGATTTTA GATAGAAGAT GTATCTCCTC TGTTTCGGTG ATATCTGTTG 15901 TATGTAGACC TCTTGTTTCC CACCAGTATC TGAATGGTAT TATAT GATAG 15951 AGCAGAAGAG AAATGTATTT GAATTAAAAC CCTAGAGACA AATA TGAATA 16001 AGATGAGGCA ATTAAGATGT TTTCAACATT TGGTGAAGTC TTAAAAAGA 16051 CCTACTGGAG CATAGAATAT TTGCTGAAGT TGTATAATGG AAGGAGAAAT 16101 AGATTTTGAT TTTTAGGACA TTATACCTGG AATGGTTTAG ATAACTTATT 16151 ATTTTTAAAG TCATCCAAAT GCAATGTAAA TATGTAAGGT TTTGT GGGCA 16201 AATGGAGCCT CTGTGTAAAA CAGGAAAAGG CACTCTTTCC TCT GGGCAAG 16251 TACAGTCCCA CAGTGGGATG AACCGCTCGC CGAGAGACAA GGGACACATG 16301 GGATTTAAAA CTTCCTTGGA TAAAGATATT CATTAATTCG TTCATTCATT 16351 CATTCATGTT TGCTGGAAAA AAAACTCTTC TGGATTTTAT CTAT TCTTTA 16401 GTTAGGTGAG CTTTCGATAT TGTAACACTC TGAGTTTGCT TTAAGACCCT 16451 CAGGCAGTTT GATTGCATCT ACACAAGATA AACCCAACCA GCAGGATATT 16501 GTGTTTTTTG AGAAAAATGG ACTCCTTCAT GGACACTTTA CAC TTCCCTT 16551 CCTTAAAGAT GAGGTTAAGG TAAGTGCCTG AGTTTGTTTC ACCCTCGAAT 

16651 GATGGAGTTT CATTCTTGTT GCCCAGGTTG GAGTGCGATA GTGCAATCTC 16701 GGTTCACTGC AACCTCCGCC TCCTAGGTTC AAGTGATTCT CCTGC€TCAG 16801 TTGTATTTT AGTAGAGACG GGGTTTCTCC GTGTTGGTCA GGCTGGTCTC 16851 AAACCCCTGA CCTCAGGTGA TCCACCCGCC TCTGCCTCCC AAAGTGCTGG 16901 GATTACAGGC GTGAGCCACC ACGCCTGGCC TATAGAGGGG ATTTATATTT 16951 GATATGGATA TATAAATAGT AGCTTTAGAG TAAATAGTAA TAAAAA TGGT 17001 GGCTTCCTAG AACTGATTTT TATTTAATAA AATATTGTTT TTCCAGTGAT 17051 TTTGCAAATA ATAGCATTTG TCCCCCACCT TAGATAAAAC AGAAGTTAGGA 17101 AATAAAAATG CTAGTTTTTA TTGTTTATTT TGACAAAAGC ATAATTTTTC 17151 CAGTAATGAA GATGTTTTTC ATTTATAACA TTTAAATCTT AAGTGGTTTG 17201 TATACCATTA AGATTCTTGC TGAAGTGAGA ACACATCAAA TGGTATCTCT 17251 GTGTAAAATT TTAAACATCC TAAGTTGAGA GACGAGTTTA ATGAACTCCC 17301 ATGTAACTAT TACTCACTTT CAGTAGATAC CAACATTTTG CAAAACTATT 17351 TTCATCGGTC CGCAACTCTT TGGCCTATAC ATATATAC TTACA TATAT 17401 TTTTATTTCC TGGAGTTTTA ATTCTAGAAA TCATATTTTC AATATTTATT 17501 ATCTTATCTC TGTGTTGTCT AACACCCAGT CCATATTCCA GTTTCTCTGA 17551 TTGTCTAAAA ATGTCACCTT GTATTTGGTT AAGTTTCTTA AGTCTCTTTT 17601 AATCTTTAAG CATAATGTAT TTCTTTTTT TAAGTCCTCT ACATAA TAAT 17651 GACATATTTT ACAGATTTGT TTAATGCCTC TGTAGGTTAG TGATTTACAG 17701 CTAGGGATGA GCTCAGGTAG TGGGATTATT TGATTTGAGA GAG GAAATAC 17751 AGCTATTATA AAGATTTGGA AGTAAATCCA TAACTGAAAG CCAA'TGACAG 17801 ATCTTTTTC CCTTCTAGGT AAATGACTTG CTCTGGAATG CAGATTCCTC 17851 TGTGCTTGCA GTCTGGCTGG AAGACCTTCA GAGAGAAGAA AGCTCCATTC 17901 CGAAAACCTG TGGTAAGACA GCTGTAGTAC CCCAGCCTTC TGCCCCATAA 17951 AACGTAGTTG AAAGTAGACA GGTATGGGAT TTCCTTCATC CCT TCTACTT 18001 AGTCCCTTAG TAGAATCAAA GATGCTGAAG TGGGTAGGTG GAAATGGGGG

18051 TGGTTAGGTT TTGATTGATT GTGGATTTCA GTCATGTATT GGTTGGGGTT 18101 CTCTAGAGAA ACAAATAATA CATATATATA ATTCGTCCCT CAGTATTCTC 18151 GGGGGATTAG TTCTAGGATT GCCCATGGAC GCCAAAATCC ACACATGGTC 18201 AAGTCCTGCA GTCAACCCTG CAGAACACTC AGATATGAAA AGTCAGCCTT 18251 TTGTATACTT GGGTTTTGCA TTCCTCAAGT ACCATATTTT TGATGTGCGT 18301 TTGGTTGCGG GTATAGAATC CACAATATGA AGGGCCGACT GTATTCATTG 18351 AAAAAATAC GAATATAAAT GGACCTGTGT AGTTCAAGCC TGTGTTGTTC 18401 AAGGGTCAGC TGTACTTACA TAGAGAGACG GTGAGAGAGG GAATAGGGTG 18451 GGGCGGGAGG GAGAGAGAGT AATAGAGTGT GGATAGATTT ACT TTAAAAG 18501 ATTAGCTAAT GTAGGGGATG GCAAGTTTGA AATTTGTGGG GGCAGGTTGG 18551 CAGGCTGGAA ATTCAGGTAA GAATTGATGT TGCTGTCTTG AGTATGAAAT 18601 CTGTAGGGCA GGCTGGAAAC TTAGGGAGGA TTTCTGTTAC AGCCTTAAGG 18651 CAGAATTCT TCTTTTCTGC GAAGCCTCAG TTTTTGCTTT TAAGGTCTTC 18701 AGCTGAATGA ATGGGACCTT CCCACATTAT GGGGAATAAT CTGCTTTCCT 18751 TATAGTCAGC CGATTATAAA TATTAATCAC ATCTACAGAA TACCT TCACA 18801 GCAACATCTG GAGTTTAGCA GATAGCTGGG TGCCATAGCC TAGCCAACTT 18851 GACACAATAA AATTAACTGT TGTAAGTCAT CACGTGCTTT CCCTAGTGCA 18901 TGGTATTACC ACAGAAAAAA CACTAACCAA AGGAATTCTG TGGA.CGTGAA 18951 AGAAGATTTA GATTAAGCGT AAAAGTAAGA ATATTTTTAT AGCTTTTAAA 19001 ATGTATAAGT GTGTGGTTTT AAGTATTAAA TAATACTTGA AAATGTTAGA 19051 AAATAAGATG AGAAAAAAAT CTCATAGTTC TACCACTTCG TAATAATCAC 19101 TATTCAAATT TTCTTGTCTT CTAGGTTTTT CATGTATATA TCTCAGTATA 19151 GCTATCATCT TGTTTTTGTT AAAAGTGTAG TAGGTATGGG CCAGGTGCGG 19201 TGGCTCATGC ACTTTGGGGG CCCAGCACTT TGGGAGGCCG AGGCGGGCGG 19251 ATCACGAGGT CAGGAGATCG AGACCGTCCT GGCTAACACG GTGTAACCCC 19301 ATCTCTACTA AAAATACAAA AAATTAGCTG GGCGTGGTGG CAGGCGCCTG 19351 TAGTCCCAGC TACTCAGGAG GCTGAGGCAG GAGAATGGTG TGAACCTGGA 19401 GGAGGCGGAG CTTGCAGTGA ATGGAGATCG TGCCACTGCA CTCCAGCCTT

19451 GGCGACAGAG TGAGACTGTC TCAAAACAAA ACAAAAAAAA GTGTAGGTGT 19501 GATACATCTG CATCATTTTA AATTGCTGTA TAATACTCGT TTATTC TCGT 19551 TCATTAAATC TCATGCTGTT AGACATTTAC AGTTTTGTCA TTTCTC.ATTA 19601 TTGTAAACAG CAATGCATGG TACATTTTTG TTCATAAATC TTTTTA.CTTG 19651 ATTATTTCT AAGTAGCTTT CAAACTCTTT AATCAGTAGA ACCCCCCCCC 19701 TTTTTTTT TTTTGGAGA CGGAGTCTCT CTCTTTCCCC CAGGCTGGAG 19751 TGCAGTGGCC CGATCTCGGT CACTGCAAGC TCTGCCTCCC GGGTTCACTC 19801 CATTTTCCTG CCTCAGCTTC CCGAGTAGCT GGGTCTACAG GCGCCCGCCA 19851 CCAAGCCTGG CTAATTTTTT GTATTTTTGG TAGAGGCAGG GTTTCACCGC 19901 GTTAGCCAGG ATGGTCTCGA TCTCCATCTC GTGATCTGCC CGTCTCGGCC 19951 TCCCAAAGTG CTGGGATTAC AGGCGTGAGC CACCGTGCCC GGCCTCAGTA 20001 GAACCCTTTT AACTGCAATG TTAAGAAACT CATTATTCAT TCAAC.ACAAT 20051 AGTTCTTAAC CCTGGCCACA CCTTTAGAAA AAAAATGATA TTCAGGCTTC 20101 ATCTAAGAGT TCAGTTCAGT GTGTTGGAAT GGAGATTATA CGTAAGTATT 20151 TAATTAAAAA CCAAAAGCCC CCAAGTGATT TTAAACAGCC GCAGTTGAGA 20201 ACCACCGATT AACCAGTGTG TCAAGGGATG GCACTGTGAT ATG CTGAGCA 20251 TAAAAATATT GCACAGGATG AAACCCTGTC TCTACTAAAA ATGCAAAAAT 20301 TAGTCCGGCG TGGTGGTGCG CGCCTGTAGT CCTAGCTACT CGGGAGGCTG 20351 AGACAAGGGA ATCGCTTGAA CTGGGAGGCA GAGGTTGCCG TGAGCCGAGA 20401 TTGAGCCACT GCACTCCAGC ATGGGTGACA GAGTGAGACT CCATCTCAAA 20451 AACATGTATA TATATATATA CACACACAC CACATTGCAC AAGA,ACAGCC 20501 ACAACATCTG TGCTCACAGA ACATCAGCAT GTGGTCTAAC TTC AAAGTGT 20551 TGTAATAATG CGGTTTGAGA CTAGGTTATG TTTGCTGTGA TCACTAAGTT 20601 AAGCATTAGT GAGCAAGGAG ATTGAGAAAA TCCTTAATAT AAA TAATATT 20651 TCTTAATATA ACTATAATTC CTAATATAAC TAAGGTCTTA ATTTA TATGT 20701 CATCTGTTTA GTAAAGGTTG GTTTTGGCAT GATTAAGTCT TGCTTTA 20751 ATAGATGTTG GAAGGATAAT TTCATGCTTA TCTTCTTTGG ACAGCTGAAT 20801 CAGGATTAAT ACCCAGATAG CCTTGAACAT AAGTGCTTGC AAAGCACCTG

20851 AAAGAAAATA AGCATCTTAA GCCCAATACA ACACAATGAT GCTAG TCTAG 20901 ATCTTGGATT AAGTGTTTTA ATACTTTTAC TCTAATTGCC AAGTTATCTT 20951 CTTCCTAAAT CTTCATGAGA AAACCCACTA AAAGAATGCT TTTTCCTGGT 21001 AGCCTTCCAT TGTGATCATA AAGTTTGGAA GTAAAGTTGA AAATAAACAT 21051 GTGGGCCAGG CACGGTGGCT CAGGCCTGTA ATCTCAGCAC TTTCGGGAGGC 21101 CGAGGCAGGC GGATCACAAG GTCAGGAGAT CAAGACCATC CTG GCTAACA 21151 CGGTGAAACC ATGTTTCTAC TAAAAATACA AAAAAAAAA ATTAGCCGGG 21201 TGTGGTGGTG GGCGCCTGTA GTCCTAGCTA CTCGAGAGGC TGAGGCAGGA 21251 GAATGGCATG AACCCGGGAG ATGGAGCTTG CAGTGAGCCG AGATTGCGCC 21301 ACTGCACTCC AGCCTGGCCG GCAGAGCGAG ACTCTGTGTC AAT AAAAAAA 21351 AAAAAAAAC GAAAATAAAC ATATGAATAA AAGTTAAAAA TAGAA.AAAA 21401 ACAAGAAAT AAACATATAT TTCTGACCTT ATTGATTCTT GATATTTTAT 21451 CTGCATGGAA AGCTATTTT TGGCAGTTAT TATTGTTCTT ATTTTAGAGA 21501 CGAGGCTGAG CAGGAAGGGT CCTTTGAAAA AGAAAAGATT GCCCTTGAAC 21551 CCCTCTGGCA AGTGGGATGA AGTCTGCTTC CCAGCCTCTA ACG GCCTTCT 21601 TTTCATTTTC CCTTGCAGTT CAGCTCTGGA CTGTTGGAAA CTATCACTGG 21651 TATCTCAAGC AAAGTTTATC CTTCAGCACC TGTGGGAAGA GCAAGATTGT 21701 GTCTCTGATG TGGGACCCTG TGACCCCATA CCGGCTGCAT GTT CTCTGTC 21751 AGGGCTGGCA TTACCTCGCC TATGATTGGC ACTGGACGAC TGACCGGAGC 21801 GTGGGAGATA ATTCAAGTGA CTTGTCCAAT GTGGCTGTCA TTGATGGAAG 1851 TAAGCTCCTG GGAAGTGTGT CCATGAGCCT GCAAGGGGTC CTGAGCCTAG 1901 GGCCTGCAGA TGTGGTGGTT TGACTGGAAC AGTGGGGAAT CTTTATTTGT 1951 TTTGGCTGTT TGGGTTACTT GTTTTTTAT TGAATGGGAT ATAAGGTGGG 2001 GTATGTTCTC TCCTGAGAAC CATTGTCCCC CCTCCCCCAC CAGTTTCCTG 2051 TTATACTGCA TCTGTGGCCT TCACACGTTT ACTTGCCTGG CCTTTGAAGA 2101 CACTGAAAAC TTTGACTCTA GGTAGAGAGG ATGACAACAG TACAGTCTTG 2151 TGGGATTGGG TGTGTTAGCT TTATCTGTTT GCCCTGACAC AGA TTTATAA 2201 TTGACCCTTA TACCACCCCA CTTGTGTTGC TTTGTTTCCT GATACAAATG

22251 CTTGCTGATA TATACCTCTC CAGTATGTTC AGTTCATGCA TAAACGTTTG 22301 CCTAATATGA AGATTAGGTT TATATTTTAT AATGAGGTAG AAGGTT TITT 22351 TAGGGGGTGG GGTGGGAAGG GCAAGACTGA AGAGTGAAGT AGT CACCTTA 22401 ATGAATAGTT TCATTGCTGA TATGAAAGGG AGCACTGGCT TCTAAGATTG 22451 TAATGTGAGG TGGATATTAA TTCATATTCT GTGTAATATT CTACATAATA 22501 CTGATTTTAT AGTCATGTAT TCTATATAGA GAACTTAATC AGATCT GCGT 22551 TATTACCAAA TCCACACATA GGAAAGTGCT TTAAGGATTT TGAAAGTATT 22601 AATTCCCTTG GTTTAGTGTG GCTTGGTTGC AGGCCCAGGT TTAAAGCTAG 22651 AGGTCTGACC TCTTGGCCTT TTTGCCTTAG TCCCTGGCAC CTGA.AACTCC 22701 AGGTACTGAG ATGGACTCCC CTAGGCCTAG AGGTGACAAT AGCCAATTAT 22751 GGACAGAACC CATGACATTT CCCCATCCCA CACTGTTTTT AGACTTGTTC 22801 CTGAGAAAA CATTGAAAGT TATTTTTTTG TGAATTGCCA TTATTGTTTA 22851 GATATACTGT GATGTTCAGA TGGCTTATCT TACAAATTGA ATATCCCTAG 22901 GTCTAATCCT CTTCTTTCTT TTTCACTGCA GACAGGGTGT TGGTGACAGT 22951 CTTCCGCAG ACTGTGGTTC CGCCTCCCAT GTGCACCTAC CAACTGCTGT 23001 TCCCACACCC TGTGAATCAA GTCACATTCT TAGCACACCC TCAAAAGAGT 23051 AATGACCTTG CTGTTCTAGA TGCCAGTAAC CAGATTTCTG TTTATAAATG 23101 TGGTATGTTA TAAAACTTTT GCCAAGATGT TCTGAATCAA GTCCCTTCTA 23151 CTCCTACATA AAAGCAAATT ATAGTTTGGT GTTGCCATAG GTCTAGTGTT 23201 TCTCAAAATT TTTAAGTCTG CAGTTGATAT CATTATCATT ATGAT ATTTA 23251 ATTGCCTTGG GTTTTTGTTT TTTTTTTTT TAATCCTATA CTGGT TTGTA 23301 CGAGCCATTC CTTTTCCCTT ACTGACTTGA AGAGTCAGTT ATTTAAGAAT 23351 AACATTGGAC TCTGGAAATA ACATAGTATG TTATACATTG TTAACATGTT 23401 TTACTCTTTT CATAGCCTTT ACACATATTT TCAGTTGATC TCATCCCTCC 23451 TAGGAGCTGT GTCAGAGATG GGGTTTTCCT CTTTTGTAGA TGAGGGAACA 23501 CAGTGTCAGA GGTTTTGTAA TTTGTTTGAA CAAGAATGGA CAAGGACCTC 23551 AACACAGGTG TTCTAGCTCC TAATCCACTT GTCCTGCCAC AGCCCCATTG 23601 CTGTCAGTTC TTCATTACTT TCCTGATGTG CTGGAGAATC TGAAATTTGT

23651 TTTTACTTGT GAGTTCTGTG GTTATGTCAT AAATTCTGCT GGCATATGGC 23701 AGTGTTAGCC TTGTTTTCAA ATATCTTTTG AATTCTCAGA AAAAGCCTAG 23751 ATAGTTGCCA AGAGAGAATA ATCAAAATTA ATTAATTTAA ATGGGAAGTC 23801 CTTACTTTCA TATCAGCTTT TCTGTTAAGT CAGCAGCCCA CTGTGTACAT 23851 GGATCCTATC TGGATGTATC ACCAGTTTCT CTGATTATAG TTTCAGTGTG 23901 TAAAATGCTG TTACAGTCCT CCTTAAACTT TTCAAAATAG CTTTAAAAAA 23951 AAGTGCAAAT ATGTTCATTG TCAAGGCAAA AAGAATCAGA TGTAAGCTTT 24001 TGTGGGACTT AACTGTATGA TGCTAATGAG TTTATATGTC ACTTTATGAT 24051 GTATGGTATG TTTTGTTCTG CATTCACTTA AAAAATAGCT TTATATCATT 24101 CATCTATTTA AAGTGTACAA TTCAATGGTT TATATGTGTG TGTATGAATA 24151 TATATACATA TGTATATGTA TATATATGTA TATTCACAGA GTTGTACAGC 24201 CATCACCACG ATCAATTTTA GGACGTTTTT ATCTCCTCAG AATGAAACCC 24251 TGTACCACCC TGCATTCATT TTACTTGAGA GAAAACTCCC TGTGATGAGA 24301 TAGGACAGGT TGAGAGCTCC ACTTTTGAAA GATTGTTCGG CATCAATATG 24351 TGGGGTTGGC CATAGGTCAG GGGCACCTGG AGGCAGAGAT TCTAGTTAGG 24401 AGAAGCTGTT GTCAAGTGTC CAGGCAGGAG CTAGCAAGAG CTTGAGCCAG 24451 AGCAGTGTTC ATAGAAATGG AAAGAAGAGA AAGATCATAA CAAATCCATG 24501 AAGTAAAAAC CCTGAGAAGT TAAAGAACCC ACTGGGGAGA GTTTGGATAT 24551 AAGAGAATCT GGAAAAAGAG ATCTTGGACT GGAACAGGTC AGGGCTCCGT 24601 GCCCAAGTGG AAGGGAAATT AAGAACTTGG AGTCAAGTGG TAGACATTTG 24651 AGTGGTGTGG AGACAAGTTC GTTGCCAAAG TTTTCAAAGA TGGTGTTTGA 24701 TGCATCCTGA GTATCACTCC TTTTTCCCCC TCATTGCTTC TTGATTGTTT 24751 ATTATATGCC AGGCTTTTTT CTAGTACTTG GCTTGTTGTA CTAGAAAACT 24801 AGTTGTACTT TGTCTACAAC TTGTTGTTCT AGGTGTAGAC AAAA GATATC 24851 AATTAAATAT GATCTATCAG ATGGCAAGTG CTGTGGAGAA AAATTAAGCA 24901 AAATAAGGGG TAGGGAGAGC TTAAGGATAA GGGTTTACAG GGGGAAGGTG 24951 TCTTTCCTAT TTAGTGTGAT CCCAAAGGCC TCTCTGTGAA GGTGACATTG 25001 AAGCAGAGAC CTGGTGAGAA TCACAGTGGG AGCCACGCAG ACATCTGGGG

25051 TAAGAGCGTC CCAAGCATTC TATGCTTGAA GGCAAAGAAG AAAAAAGAAA 25101 GAGCGTTCCA AGCAGAGTAA AAAGCAACCA CCGAAGTGCC TGTTGTGTTT 25151 AGGAAATAGC CAGGAGGCCA GGGTGGCTGC AGCAGAGCAA AGGAGGGGAA 25201 GGTGGTGGT GAGTTCAGAG TGGTGATGGG AATCTGCTCT TGTAGGGCCT 25251 TGCGGCTTTT ACTCCGAGTG AGATAGGAGC CACCAGAGGG CTTAGAACAG 25301 AGGAGTGCAG TGTTCTGGCT GAATTTTTTA AAGGCTTGCA TTGGCTGCTG 25351 TGCAGTGAAT AAACTGGATG AAGAATAGAA AGAAAATGTC TTTTAAGCAG 25401 GTGCTTAGGA CTTTGGAGAA TTTGAGGATA TTGAGAGGTG GTTGAAGACA 25451 GTGGAGGAAA TTGTCCACAG CACTGGGCTG AGAGGGTAGC CCCTTCACCT 25501 GGTCTTGCTG AGATGTGGCC TTTGTCAGGG AAGATTATGA CTGATGTGTT 25551 CTTAAGAGGA AAGCAGAGAT TTTAAGGAGG TTGAGATGTG ATTATTTTCT 25601 AGATTGCTGT TTGCCTTCTA GAACTCATTA ATTGCAGACA CCATCCCCTT 25651 AGTATTAGGT GAAATCTTAT AATTTACGAT GATAATATTT GCATTTTTGT 25701 TTTCCAGGTG ATTGTCCAAG TGCTGACCCT ACAGTGAAAC TGGGAGCTGT 25751 GGGTGGAAGT GGATTTAAAG TTTGCCTTAG AACTCCTCAT TTGGAAAAGA 25801 GATACAAGTA GGTTCTTAAT TATCTTGGGC TTCTGGGAAC AGAATCAGCC 25851 AGCATGCAGT CCTAAATTCA GCCATCTGAT AACAGTTCTA TGCCTGTTGC 25901 TGAGTGGAAC AAGAAATAAA GACAACACCC AGGCCCTGAC TTTCGGATCT 25951 GATTGGAGAA GCCAGTCATG TAGTTTGTCT GAATGCCATA TAATTTGATA 26001 GGTAGCAGGA GAGCATGAGT TGTAAGCCAG CCTAGGACCT ACTCCCAATA 26051 GCGCTTGGTT CTCCAGGAAA AATCATGTGG GAAAGATGGA GATGACAATG 26101 ATAAGGCGGA GCTGCATTCT CTTACATAAA TGGGGATGTA TGGGTTGTTA 26151 ACATGGATGA CCTAATGCAG CCTCTGTCTT TGCTCCATCC CAGAATCTAG 26201 AACTTCTGGG TGCTGTGCTT TGAGGCTCCT GGGATGGAAA TCAGAATGCA 26251 TTCTTCCATT GAAACAGTAT TGTAAACAAT TGGATGTTAT TGAATACCTC 26301 AGGTACACTA TAGGCATTTG CAAAATGACC TAGAAACCAA ATTATAATGC 26351 CACATCTGTG AGAGAACTTT TTTAAAAAGT ACCACTTATT GAGTACTTAC 26401 AGATTAAAAA AACAAAGTGT AGAGGTTAGG TAACTTACCC AAGGTCATGG

26451 ACCTGGTAAC TAGAGAATTT AGGGTTTGAT TCTATTCTGT TTGATAAGTC 26501 CATGTTCTTC ATTACTAAAC TACTCTGCCT CCAGGGAACA TTTATTGTTA 26551 GATTAATAGA AATAATTAAC TGAGTACAAC AAATAGCAGA ATTTAATAAA 26601 TAATGTTTCT TAAATATATG TGATATATTT AATAAATACA GCAGAAGTGT 26651 TCAACCTCTG TATGATTTTG AGGCTGCCTG TATAATGCTT AGTAGTTTTT 26701 AAAGAGCATT TACATGCATT ATTTCACTTC ATAGACTTGA AACCACTAGA 26751 GTAGAGATAG AGGACAAATT AGAAAGTATG AGGCAGTTTA GAATA TAGTT 26801 TCATTTAAAA AAAATTGATG GGGATAATGC CAATTCGTCT GAGATTTCAC 26851 AGAAGACATG AGTACTCATC GTGATCTTGG GGAAGGGATA GGTTTGGGGT 26901 TGGCAAAGAA TTGGGAACAT TGGGTCTGGT GGGGAAGAAA GTGTCAGTGA 26951 AAACCAGAGG TGGGACTGAT CCTCCATGGG ATACTCTATG TGAATGCAAT 27001 GGAGAGCCTG AGTCCGGGGA GAGATGTTTG AGGAGGAAGA TCAGGCTAGT 27051 GACCAACTTC TTCAGTGGGA GCTGCGGATT TGCCACCTGA TCTAAAAGGC 27101 AGGAAGTAGC CATTGTCGGT TCCTACGTGA GGTGACAAGA ACAGTGCGCT 27151 GGTCAGGTGT ATAAATGCTA CCAAAGAATG CATTAGAGAC ATGGAGACCA 27201 TCTCTCAAGC TAGTCAGTCA GTTTAATGTG AGGTGCTTAG GAAA GGACCC 27251 ATTCTACTGC AAGTGACATA CCTGCCAGAG CCTGGTTTGA ATGCTGGTAA 27301 GTCATGGCAG TGGAAAAGCT CTGGGGTTCA TTAGTGTAGG GACTAGGGCT 27351 GGTAATTITC TTGTGTAGTC AGTTTCCTCA AGTGTTCTCT TCAAATTTAA 27401 AGATTTCAGG GTATGAGAAA TTTAGGGAAA ATATAAAAAC GTATTCTTAA 27451 GCCAGACAAA GATTAATTTT AGATTTTGTA GTATTTGGTA GTATCTCAGG 27501 TTTTGTCCCT CCAAATAATT AGGAGTGGAC TGTATACAAG ATGCTTCAGT 27551 CTTCCTTCAT CCAGGAACGT CTCAGTGGTT TTTAAGTTTT ATTCATGTCT 27601 TGGATATTCT TCAATATTTA CAATAGAATC CAGTTTGAGA ATAA TGAAGA 27651 TCAAGATGTA AACCCGCTGA AACTAGGCCT TCTCACTTGG ATT GAAGAAG 27701 ACGTCTTCCT GGCTGTAAGC CACAGTGAGT TCAGCCCCCG GTCTGTCATT 27751 CACCATTTGA CTGCAGCTTC TTCTGAGATG GATGAAGAGC ATGGACAGCT 27801 CAATGTCAGG TATTGCAGTT TITCCCTGTA CTCCACATGT TAAGCAAATG

27851 GAGTTAGGTT TTTGTCTTTT ATGAGCATAC AACTTTTGAC TTCTATT GAT 27901 CAAGGTTGAG GAGCAGTAGC TITCTTGTTA GACACACITA ACAAGAAGGT 27951 TAAGTCTAGT TATGAGCCAT GTCAAAATAA CAGACCAAAA ATATAT CAAA 28001 AAGTGGTGAA AAATAGGATA AATATTAGTA GATGAAGCAA CTTTTTAAAG 28051 ATATGTTAAA TATTTTAATT TAGCATCTAC CCACATTTTT CCAGCGT GAT 28101 TGTTATATGT TATAATTGAT TTTAATAACT GTCAAGCATA ATTAGAGTGG 28151 CTAATTCTCA TGGGCTAATG TGATGGGAAG AAATTTTGTA TAAATGCAGT 28201 CATGCGCATA TATGTGTGTG TGTGTGTGT TGTGTGTGTG TATACATACC 28251 TTTTCTATGT TTAGATACAC AAATACTTGA CATGGTATTA CAATTGCCTG 28301 TAGTATTCTG TAAAGTAACA TGCTGTCCAG GTTTGTAGCC TGGTAGCAAT 28351 AGGCCATACC CCATAGGCTA GGGGTGTAGT AGGCTACACC ACCTAGGTTT 28401 GTGTAAGTAC TCTATGATGT TTGCACAATG ATGAAATCAC CTAACAACAC 28451 ATTTCTCAGA CGTATCCCCA TCGTTAAATG ATGCATAATT GCACATATAT 28501 GCTTTGTTTT GATGTGGTGA CTTCAAAATG CTTCTTCCAG CCTCCTCTTC 28551 TATATATCCT ATTTTGTACC TGACTACATT TACCATTAGA AAGTCTCTAT 28601 TCTTCTTTGC TGAAATTTCA CTGTTCTCTG GGCCTGAGTT TTGTTTTGAT 28651 TCCTGACTAT ATCTTCATTA TGTAACAGGT TTCAGTTAAT GAATGCTCTT 28701 CTGTGTAATG TAAGCCCTGT TGTATAGTTG ATAGCATTTT CTAGCCAGTT 28751 CCCAGAACTC CTTGTTTCCA GTGTCAATAC TTGGCACCTT TGTC CACTGA 28801 CACTAATCCC CAGATTAATT TGTAATTAAA GCCCTACTGG TGAGATTTCT 28851 GAGAAACGTT GTTGCAAAAT TAGGAACCTT TCCTTTATAT ATATACATTA 28901 CATAAATTTA TAGACATAAA ACATTTTAAT GCAGTCATTT GCTGCTACTC 28951 TTTGACTCAT AGTCTTTCGT GATATTTTGA AAAAGCCTTT TGTTAACATG 29001 TCTAAATGCA GAATATGTTC TAGAAATATG TAGCACTTAA AGTAAGCCAT 29051 TAGATTACCT TTTGAAAAGC GGAGCAATTT ACTAAGTTTC TACTTCTTCA 29101 GATTTGAAAT TCTTCATCAT TAGCTTGTAG AGGCAAAAGC TTGATGCAGT 29151 CATCTCATTT GCTGTAAAGG AAATGAGAAG TCATTTACAG TATATTTCTA 29201 CTGCTTTGAC TTTTATTTCT CAAAAAGACT GTTTTGTTCA TATAAAATAT

29251 TAATGCTTTT GAGGACTACA AAGTCCCTCG ATTTAGTTTA CATTTACTTT 29301 AGCTTATACT TTGTAAAAAA TACTCTTCTA AATGCTTTGT CTGTTTTAGC 29351 TTACTTATTT CTCATAATAC CTCTGTAAAG TATATGCCAT TTGCACCATC 29401 ATTTTACAGA TGAGACAACT AAGACATGGA GCAGTTAGGT AACTTGCCTG 29451 AGATCATGCA GGTGGAGCCA GGATCAAATC CCAGCGAGTC TAGCTCCAGA 29501 GTTTGTTCTC TTCTTGACAG ATAATTTATC CTCACAAAAT TTGAAGCATT 29551 TGTAGAGGAA TTCCCTATTG TTATAATGTT TAGTTTTTTT GTAGAT TGGT 29601 TAAAAACTTT GAATTAAATG TTAGCATTAA CATCATTTGC TTTTATCACT 29651 ACTICITITGT CTCTTTTTC TTTTTTAAT CACTACCTCT TCCTCCTCTT 29701 TTGAGAAATT CTGCTTCCGT GGCTATGGTC CAAGCTACTT GAGAAGGTGA 29751 GGTGGGAGGA TCACTTGAGC CTAGGAGGTT GAGATTGCGG TGAGCTGTGA 29801 TTGTGTCAAC TGCATTTCAA CCTGGGCAAC AGAGCAAGAC ACTGTCCAAA 29851 AAAAAAAAA AAAATAGTGA AATTTTACTT CGCTCCATTG ACTCAGGGAA 29901 AAAATGTAAT GGTGATAACA AATTCCCTTC ATCTCATTAG TGAAAATCCA 29951 CAATTTTCCA TCAATCGATA TGATAGTGAT AGAGATATTG AGTGTGCTCA 30001 TTTTCCTACA GACCAGCTGC TTTAACTATT TTAAGCAGAC AGAAATGATA 30051 TTGGTACCAT CCATGTCTAA TGAAGGCAAT ACTTTGTAAT AAGTTGCAGT 30101 AAGTTGTGGC CAGAAGAGGA ATGATGACTT CACAGTGTAA ACAACTACCT 30151 TATTGGGTTT GTGGAAAATG GTGTCATGTA GCAGATGTGG CTTTATCTGG 30201 GCTTTGGTTT GGAGTAGTTT TATCTATTCA TCTAACCGTC TGTCTCTAAG 30251 TGTATAAGTG TGTGTGTGTGTGTATA GTATTGGGTG TGTATATATG 30301 TATTTTGTCT ACATTGTATT GAAGTAGGTA GTGCAGCATC AAAAGGAAAT 30351 TGTTGATTTT CAAAATCAGT GAAATGTCAC TATTTTTGAG AAAAATGGTC 30401 TGTTTACACT CCCTTCTCCT TTTTTTTGTC AGTTCATCTG CAGCGGTGGA 30451 TGGGGTCATA ATCAGTCTAT GTTGCAATTC CAAGACCAAG TCAGTAGTAT 30501 TACAGCTGGC TGATGGCCAG ATATTTAAGT ACCTTTGGGG TGAGTATCAA 30551 GGTGTTAGGA AAGCATGTTA TGACTTACAT AGATGCTTAG TTCTTAAGAA 30601 CATGTACTTG TATCTTGTCA GTTCAATATT GATTGTCAGG TCTTTTAACT

30651 ACCCTGGAAA ACCCTAAGCT TTAGAGTGGA ATTGGCAAGT GTATTCTACT 30701 CCTGTTTCCT CTTTTAATGA ACTAACGTAC TCTTAAAAAA GTGATTGATG 30751 ACTATCGCAG GGACAAAAAA CGAAACACCG CATGTTCTCA CTCAT.AGGTG 30801 GGAACTGAAC AGTGAGAACA CTTGGACACA GGAAGGAGAA CATCACACAC 30851 TTGGGCCTGT CGTGGGGTGG GGGAGGGTGG AGGGATAGCA TTA GGAGATA 30901 TACCTAATGT AAATGACAAG TTAATGGGTG CAGCACACCA ACATGGCACA 30951 TGTATACATA TGTAACAAAC CTGCACATTG TGCACATGTA CCCTAGAACT 31001 TAAAGTATAA TAAAAATATA TATATAAATA AATAATGCCA GCATTAGAGA 31051 AAAAAAGTGA TTGAAATTGC ATGTTAAGTG TTTTAGCAAA TGTTGATGTT 31101 GATGGTTTTT TGCAAAGAGC GCATCAGCTA TTTGTGAACT AGATCTGTGA 31151 ATCTTGCAGA GTCACCTTCT CTGGCTATTA AACCATGGAA GAACTCTGGT 31201 GGATTTCCTG TTCGGTTTCC TTATCCATGC ACCCAGACCG AATTGGCCAT 31251 GATTGGAGAA GAGGTAGGTG AACACGGAGC AGGAAATTTA CTTAAAGTAG 31301 TTACCCAGGG ACTGATGGCA TTAAGTAGAA AGAGCGTGGG CTTTGGAGGT 31351 GGACTTGGGT CTCCACTAAA TGCCTAGACA ATAGTGGGAA ATGATCTCAC 31401 TTTCATAAGC CACACCTTAT TCATCTATAA AATGGGAAAA TCAGTATCTG 31451 TCTATCAGGG TTCAGAAGAC TAAATGAGAT AATATATGTG ATTAGCAACC 31501 TTTTATCCCT AGTTGTACAA ATCATTCAAA GTTAATTTTA TTTAGTAGGG 31551 GAAACAGAAA TGTGATCTTG AGAATAGTTT TAGTAGATTT TTATTCAACA 31601 CATACTAGAA TGCCTATAAT TGTGGTGGAT GGTAGAATGC AGTGGCTGGA 31651 AAACAAAACC GCTTGACTAA TTCCTGCTCT TCTGGAACTT GTGATCTATT 31701 AATTTCAATG TAATGATTCC CTTTGTTGGG AGTGTGATGG AAATGGACAG 31751 AGTATACTGG TAGAGAATAC TGAGATGTTT GAGGGGTAAT TTGAGGATGG 31801 TGGCTATGAG AATGGGAGTC CTGCATCTGG TGGTCCAGGA AGGCCTCTCG 31851 GAGGCAGTGA TGTGTGTGCT GAGATGTGAA GAAAAAGAAG GCTCTGTCTC 31901 CAGGCAGAAG GAACAACAAA CTCCTTGAGC TTAGCAAGAG CTCATCTTAT 31951 TCAAGGGACT GGATGGAAGT ATTGTGGCTG GAGCTCAGTG ACAGTCATAG 32001 GAGGGAATTT GGGTTCTTTA ATTGAACAAA GATTAGAAAC TTCTTGTGAT

32051 TTTTAATAAC AGAGTAATGT GTTCTGCTTC ATGGTTTGGA CAGTGATTCT 32101 GGCTGCCCAG AAGAGACTTG ATTGGAGAGT GACGAGACTG GAA TATGGGA 32151 TCAACACCGG TTGAGTGGAG TTAGTGAGGG GAAAAAGGAG ATGGGTTTGA 32201 GATATGTGTA GGAGATGGAG ATGTCAGGGC TCACTGATGG ATTGGATGGC 32251 TTCACATTCC GTTTTGCACT GGACCAGCCA CGTCTTAGGT ATCTATCTTT 32301 AGTCCTGATT ACAGGAACTT AGGTGTGAAA TCATAGGGTG GTAGAACTAT 32351 GTGATAGAAA AGGTAGGTTT AACTGATTTG AGATAGAATT GCTTGTGATT 12401 TCAGTTTTAT TTCTTTGCAG GAATGTGTCC TTGGTCTGAC TGACAGGTGT 12451 CGCTTTTTCA TCAATGACAT TGAGGTATCA AGGCTTGGTT TGGTGTTGGA 12501 TCCTTTTCAC AGTGTTAGCT CCGAGTAATC TAGCTAGCTT TCACCCATGC 12551 CTCTCTGGCC TTCTCTTGCA GGTTGCGTCA AATATCACGT CATTTGCAGT 12601 ATATGATGAG TTTTTATTGT TGACAACCCA TTCCCATACC TGCCAGTGTT 12651 TTTGCCTGAG GGATGCTTCA TTTAAAAGTA AGTTTTCAAT GTATAAAACA 12701 GAAATGGTCC CTTCTCCAAT GTCTTTTGGA GTCTTGATGA CTTTTTGAAT 2751 TCTTCATTTA TTTTGGCTTT TTATCAAGGA GTCCTAGGCT GGAGAAAATC 2801 TTTAGAGTTA TTTTACTTAG ACCCTAATCT CAACATAATA TCTCAGTTAA 12851 ATCATTCTGC ACTITAGTAA AGACATCCAA GGAAGGGAGT TCCTTCCTTA 2901 AGCAGCACAT TCTAAAGTTA AAAACTTTTC AGGAAATTTT ATTAT GTAAC 2951 TGATCTAATA TTTTATTTGG AATTACTATG TAGATCCCCA ATGTTTTACC 3001 TTCTGTGTAG TCTTTTCCCA CTGTGCCCAC CCTCCACTGT ACATCTGCGC 3051 TCCATCTAGT GGTTTGTAGG ATATTGGCTG CATTTTGTCT TCTGTTCCAT 3101 GCCCTATCTA TCTCTGTGTG TGTGGCGTGT ATGTGTGTGT GGCGTGTATG 3151 TGTGTGTGGC GTGTATGTGT GTGTGGCGTG TATGTGTGTG TGGCGTGTAT 3201 GTGTGTGTGG CGTGTATGTG TGTGTGGCGT GTATGTGTGT GT GGCGTGTA 3251 TGTGTGTGTG TGTTCCTTAT TCTAAAAAGC CAACTTATTT TCTT TGCTTC 3301 CAACTTGGAA ATAGGGAATC TTTCTTTCAT TGATATGATT ATAGTACACT 3351 GATAATGCTA AGAAATAGAG AAGTTGCCCC AATTCTTAAC TGTGTTTCTC 3401 CACATCATTT GAGAAGCTGT GTATGTGAAT GTGCATGAGG GCTCTGTAAG

33451 AGAGAGGCA AGTTCCAGGG ATGAGCGTGT TCATCAGCAG GGCTGATAGT 33501 CTTGAGGTTC AGTGGGAGAG CTAAGGCACA TGGTTGTTAT TTGTTCTCTT 33551 CTATTTCACA TAATGTGTGC GGTTTCAATT GCAGTTAATG GAGAGTGGCT 33601 TGTTGTGATA ATTAAGGCTT ATTAGTTAAT GGTGTGTTTA GCATTACAGG 33651 CCGGCCTGAG CAGCAATCAT GTGTCCCATG GGGAAGTTCT GCGGAAAGTG 33701 GAGAGGGGTT CACGGATTGT CACTGTTGTG CCCCAGGACA CAAAGCTTGT 33751 ATTACAGGTA AGCTGGTTTT TCAGACAAGA TAGATAGTCT GATTGTCATT 33801 CAGCCAAGTA CCAAGCATAA TTCTTGCAGG TTGTATTTTA GGCTTTCTTA 33851 TTCTTTGTAT CGTTTATTGT AAACCTTTCC TTGATAGTTT TCTGTTAGCT 33901 TTATTCAAAG GAGTGTTGAT ACAGGCTGTG ACCATAAGGC TCAAAGCGAA 33951 ACTTTTCTTG AAAGTCAAGA TAAATATAGA GAACAACAAG ATTCTGCTAA 34001 AAGTGTGCTG ATTTTAGAGA GTTGTGGTAA TTCTCTGTGA AGAGTTAGGT 34051 AAAATGGTGT ATCCTGGCTA TTTAAATGTT TTCTACTTAA TTAAA.AATGT 34101 TACTGCTTTA ATTTATTTAA GATGCCAAGG GGAAACTTAG AAGTTGTTCA 34151 TCATCGAGCC CTGGTTTTAG CTCAGATTCG GAAGTGGTTG GACAAGTAAG 34201 TGCCATTGTA CTGTTTGCGA CTAGTTAGCT TGTGATTTAT GTGT GAAGAC 34251 AATAAGTATT TTATTACAAT TTCGAGAACT TAAAATTATG AAAAGCCCTC 34301 ATTACCTATA TCATCAATCA GATTCTTAGA GGCTCTTTTT TTTTTTA 34351 ACTTTTTAC TTTAATGCAG TATTTTGTAG TGGAGATTCC TAGCAGAAAG 34401 AATCGTGACA CTCATCATAT AAAGGAGGGC TTCTCTTAAC CTGAGGGAAC 34451 ACATGTGGGT TTTAGGTGGC CTGTGAACCC AGGGAGATTG TACACACAA 34501 ACCTTGTCTT TGTGTATTTA TTCAAGTAGA AAGCCCACAG CTTTCAATAG 34551 ATTTACAGCG GGGCCTATGA CCCAGAAAAG CCTGAGCTAC TCTTGTGAAG 34601 GAAATGACTG ATTTTCTGAA CCTATTTGGA GGAAACTTTG TATTGGAAAG 34651 ATCTATACTA ATGTTTTGTT TAAAAAGTAG ACCTGAATTC CATGATGATT 34701 TTCTTTGTTT TTTTTTTGAG ACAGAGTCTT GCTCTGTCAC CCAGGCTGGA 34751 GTACAGTGGC GCAATCTCGG CTTACTGCAA CCTCTGCCTT CTGGGTTCAA 34801 GCAATCCTCC CACTTCAGCC TCCCGCATAG CTAGGATTAC AG GTGTGCAC

34851 CACGCCTGGC TAATTITTTT TTTTGTATTT TCAGTAGAGA CAGGGTTTCA 34901 CCATGTTGGC CAGGCTGGTC TCAAACTCCT GACCTCAAGT GTTCTGCCCA 34951 CCTCGGCCTC CCAAAGTGCT AGGATTACAG GTGTGAACCA CCGTGCCCGG 35001 GCTTCTGTAA TGATTTTCTG TTGTATGTAT GTGAAGATGT AGTTCTCAGA 35051 CAGTCATGAT GACTAAATTA CACCTTTTAA GAAGGTAAAT GAATGTGGTA 35101 CCTGATTTTT TTATTCTGTA ATTTCAGAGT AGAAATCCAG TGATAGTAGC 35151 TTGGCATTGG GGCTGTAATC TGATTATAAC TGGTTTGTAT CATAATGAAA 35201 ATATGCTGGG CCCATGGAGC TCAGTTTTTG TGAATATCTT TTCTATTCTT 35251 TCTCTGTCTT CTCACAGACT TATGTTTAAA GAGGCATTTG AATGCATGAG 35301 AAAGCTGAGA ATCAATCTCA ATCTGATTTA TGATCATAAC CCTAAGGTAA 35351 CTTTCTAAGC TGTCATTTAC TCTAGCTTAC TTTGTACTTA AACTAATATG 35401 ATCTGAACGA AGATGTTTTG TCCTTTTTTT GGTAGGTGTT TCTTGGAAAT 35451 GTGGAAACCT TCATTAAACA GATAGATTCT GTGAATCATA TTAACTTGTT 35501 TTTTACAGAA TTGAAGTAAG TATTTTGAAT AATTCATGTG TATCT TTTCC 35551 ATAGTTTTCT CTCTTCTTGT TAAGGAAATC AAGCATAAAT AGCTA GAGAA 35601 GAAAAATTCC TTACTGTTCA TTTTTAAAAA TTGCTATAAC TCTTAGATGC 35651 CAGTTGGTTT TTTGCTCTTT TCCGTTCTTT TTAAAACAGC CTGTTTAAAA 35701 CTATGTCCTT AAAACATGTC ATTCAGAATT ATTATTTCAC TTGATTTTTA 35751 GGTATACATA TAAAACTACT TGTTTTTCCT AGGAGACTGA AATCAAATGG 35801 CATCTTTCTC TCTGATGATC TTTCCCCTCA ACTTTTAAT GAAACACTTT 35851 CAAAATAGAG AAAAGTTGAG AGAATTGTCC AGTAAGCAAC CTA TATATAC 35901 CCCACCTGGA TTCGCCAGTT TATATTTTTC TGTATACACA TTCTCATTCT 35951 CTATAATCTG TCCATCCATC ATTCATCTTG TTTGTAGACA AATTGCTAAG 36001 TGAGTTGTAG ACATCAGTCC ACTCTACCAC CTGTACTTCT CCTTGTATAT 36051 CATTAACTAG AGGGCATTCT TTGTGTATGG GTTGGTTTTG TTGTGTTTTT 36101 TCAGGTCATA TTTATCTACA GTGAAATGTC CAAATCTTAA GTGTGCCACT 36151 TAGTGAGTTT TGGCAAATGT ACACTTCATG TAACCTGAAC CTC TGTCAAG 36201 TTAGAGGGCA TTTACTCCTT TTCAGAAAGC TGCTTCAGAT TCCTTTCAAT

36251 CAGTCCCTGT CCCATTCCCC AGGCAACTAC TCTTCTGAAT TTTTTACCAT 36301 AAATCAGTTT TGCCTGTTCA AGAACTTCAC CTAAATGGAA GCATACAGTA 36351 TTACTCTTCT GCATAAAGCT GTTTTCATTC AGCATATTGT CTTGAGATTC 36401 ATCTGTGTTT TTATATGTAT CACTAGTTCA TTCTTTTTT ATTGGTC AGT 36451 AGTATGCCGT TGTGTAAATA CACCACTATT TGCTTATTCA TTCCCCTGTT 36501 GCTGGACATG TGGATTGTAC TACCCTGTTT GGGGCTAATG TGACTAAAAC 36551 ATCTACAAAC ATTTGTATAA GTCTTTTGTG GACATGTTTT ATTTCTCAAT 36601 ATTTTTATAA TTCAACTCTT TTCCAAAAGT CATTTTTATT TATCATCATC 36651 AGCATGCCAG GTGTATGTTA GTAATTTGAT CGCTGGGCTA CATG TTCTGT 36701 TGATGACCAT TCCATACACA CCTGTTCTTA GAGAAGAAGA TGTCACGAAG 36751 ACCATGTACC CTGCACCAGT TACCAGCAGT GTCTACCTGT CCAGGGATCC 36801 TGACGGGAAT AAAATAGACC TTGTCTGCGA TGCTATGAGA GCAGTCATGG 36851 AGAGCATAAA TCCTCATAAG TATGTATGCT GTCACCAGGT GGCATCCTTT 36901 GAAAAACCGA AGTGTGTAGT TGTCCTTGTC CAGCCTACTT ACCTTTCTCA 36951 TTCTGGTGTT CTTCACTTAT TACCTCAGAT ACTGCCTATC CATACTTACA 37001 TCTCATGTAA AGAAGACAAC CCCAGAACTG GAAATTGTAC TGCAAAAAGT 37051 ACACGAGCTT CAAGGTAGAG ATCCGCTCAC AGAGAAAGTG CTTAAGGTGG 37101 CCGTGACTGC TACTAGTCTT CTGCAGGTGA CAATCACCAT GTCATTGCCA 37151 CACCACAGAT TTAACATGTG ACTTTTAGT TGCCATTTTA AGACCCTTGT 37201 CAGTTTTTT CAGTGCTGCC CTCTAAAGCA TATATAAAAG TATCAGAAGT 37251 ATATATTCTT CTGATGTCCA GTTCTATTGA GAAAAATTTA TTGTCTTTTT 37301 GGTTATGTTG TTAGGTCTGT GGATTTTTTC CCCAAATGAT TGTGTTCTGT 37351 TTTGTTTTCT AAACACTGTT AGGAAATGCT CCCTCTGATC CTGATGCTGT 37401 GAGTGCTGAA GAGGCCTTGA AATATTTGCT GCATCTGGTA GATGTTAATG 37451 AATTATATGA TCATTCTCTT GGCACCTATG ACTTTGATTT GGTCCTCATG 37501 GTAGCTGAGA AGTCACAGAA GGTATGTGGA GTTCTTACTT TTATGCCATT 37551 TGGTTCTTGT TTATATAATG ATAGTGTGAA ACCCTGCTTC TGGTAGTGCA 37601 GTAGCTTTTC TGCTATCACT CTGTGAGTGC AGGGCTGGAG ACAGATCTGT

37651 GAGTTTCTAG GGCCCACATT CCTAAGCCCC TGTGCTTATG AAAGTGTTTT 37701 GATTGTGAGG TTGAAGAAGT GAAGTAAAAT TGCATGGCTT TTTTTTGTTT 37751 CTTTTTTT GAGACGGAGT CTCACTCAGT CGCCCAGGCT GGAGTGCAGT 37801 GGTGCGATCT CGGCTTACTG CAAGTTCCAC CTCCCGTGTT CACGCCATTC 37851 TCCTGCCTCA GCCTCTCTAG TAGCTGGGAC TACAGGTGCC CATCACCACG 37901 CCCGGCTAAT TTTTGTATT TTTAGTAGAG ACAGGGTTTC ACTGTGTTAG 37951 CCAGGATGGT CTCCATCTCC TGACCTCGTG ATCCGCCTAC CTCAGTCTCC 38001 CAAAGTGCTG GAATTACAGG TGTGGGCCAC CATGTGCGGC CTAAAATTAC 38051 ATGGTTATTT TTAAGATGAT GGGCATATGT GTGAGCTAAT TTCTTCTCTT 38101 ATAAAGGAAA TGTAACAAGT GGTTCATGTT CCACTCCGGT TCTTTCTCAC 38151 ATGGCTCTTT TTTCTAGTGG AGGGTGGGCA CATGGAGCAC AGA.AGGCTCA 38201 TGGCCTCCTT TCCTATGTTG GTACATTTGC TATGATCAAA AACTTTGAAC 38251 ACCACTGGTA TGCATATTTT TTATTTATTT TTTTGCAGCC TCAGT CTCTT 38301 CCCCATGACC TCTCCAAAAA TGAAAATCGG ATCCTTCATC TCTCTGCTTA 38351 AAATACTTCA TGAGCTCCCA TTGTTCCGAG GATATAATTC AGAAGCCATA 38401 ATACTGCTTA AAAACCCTTC CTTGACCTGG CCTCTGTGTA TCTT TCCATT 38451 CTCACTTCTT GGTATTGTCT TTTTTTCCTC TGCCCATGGA GGAA.AGACAA 38501 TGCTTTTGTC CCCCTTCCCT TGCCCCTCAC CACCACATGC CTTGGTGGGC 38551 AGCATTACTT CTGCCATCCA TGGGCTTTGA CTGCTTCCAC CCT CACCATT 38601 CCCCTGGCTA ATTCTCACTA ATCTAGGTTA AAGGATGCCA AGGTGGCCTC 38651 TTCCCAGTAA GCCATTCATG CTTCCCTCCA GGGACTGGGT GAGGTGACCC 38701 TCCTATATGC TTCTGTTGCA CACAGTGCCT ACCCCTGCAG ACT ACAGTGT 38751 GTCTTTATCT AGAGTGCGGT ATTTATTTAT TTATTTTGA GACAAGGTCG 38801 GGCTCTATCA CCCGGGCTGG AGTGCAGTGG CACCATCTTG GCTCACTGCA 38851 ACCTACGCCT CCTAGGCTCA AGCAATCTCA CCTCAGCTTA CAGGCGTGCA 38901 CCACCATGCC TGGCTAAGTT TTGAATTTTT TTTGTTGAGA CGGGGTTTCG 38951 CCATGTTGCC CAGGCTGGTC TCAAACTTGT GAGCTGAAGC AA TCCATCTG 39001 CCTCGGCCTC CCAGAGTGCT GGGAATGAGC ACTTAATTAT TTGTTGTCTT

39051 GGGTTTTCTT CCTATGTTGT TCTTACATGT ATTTATCCTG TCAGCC CAGG 39101 GAAATTGCAT TAAAAACAGG AAACACCTCT CCATTAGGAA GAAAAACAAT 39151 TTGCTTACAG GGCATGGCAT AGAGCTGGAG ATGATAGTGC CAATAAATAC 39201 TAGGTTGGCA GGGTCTCAGA GTTTTGTGTC CAACTCAGTA TAATTTTATG 39251 TTTGTTTTAA TGTGATCATT TCAGGAGAGC ATGGAATGTC ATGAAAACAG 39301 CACCAAGAGC AATGTCTTAG ACTTTTAGGA GAAACTTAGA TGCAT TTGTT 39351 GAATATCTTC TAGACTGAAA CCTTATTTCC CTTATTAGCC TATGAAATAA 39401 ATGATACTGT GAGACTTAGT TAAGGAAGTT ACTATTATTC CAAGT GTAAC 39451 TTATTAATAT CCGTATGTGA AAGCATTTTT GCCAAAGCTT GTTTGATGTT 39501 CAGCTGACCC TTGCACAACG TGAGTTTCAA CTGTGCGAGT TTGAACTGTG 39551 TGGGTTTATC TAAATGTGGA TCTCTCTCAA ACACAGTTGG CCCTTTGTGT 39601 CCACGGCTTC TGCATCCACA ATCAGTGTGG ATCAAAAGTA CAATATTTGC 39651 AGGATTTGAA ACTTGCAGAT ACAGAGGGCC AACATTTTGT GTAT CCAGGC 39701 TCCATGGGGT CAAATGTAGG ACTGGGGTAT GCTTGGATTT TGGTATCCTT 39751 GGGGTGTCCT GGAACCAATT CCCCATAGAT ACTGGGGGAC AACTGTAGTT 39801 TGATTTTATA TATTATATAA TATGCAGTTA ATATATAATA CACATTTAAA 39851 AATTATGTAG CTTTGGGTTT ATTGCTATAT GTAAATGCTA GTTTCTATTC 39901 CTATATATGA ATATCACAAG TAATAAAGTT CTCATTAATC ATTTTTTTAG 39951 GATCCCAAAG AATATCTTCC ATTTCTTAAT ACACTTAAGA AAATGGAAAC 40001 TAATTATCAG CGGTTTACTA TAGACAAATA CTTGAAACGA TATGAAAAAG 40051 CCATTGGCCA CCTCAGCAAA TGTGGTAAGT GTGGGGATTA GTATGTTTAT 40101 CTCTACTTCA GATCTTCTTT GGAACTAGGC AAGGTATAAA TTAAACTGTT 40151 AGTTTAGACA GTGACTGATT TCACTTCCCA CTCCTGAAAA CTCTAACAAT 40201 TATGTATGCT CACGTTATTT TGTCCTGTGT TCTGAAAAGC TGAAGGTAAT 40251 CACTTTTAAT GAACTGGAGG AGCTCCCTAG GTAAGAACGT CAAGTAGATC 40301 CTTTTTGGT TAAGAATGAG CACCTGTGAA GTTAACTTCA GTGTCTCAGA 10351 ATCAAAATTG GTTGACAGTT CTTCCTTCTC ATGCTGTTTG CAGACATGTC 10401 AGGGAAACTC TGCTTGTCTG GAGAGAGTGA TGAGGCCACC TCCCCGTGCC

40451 CTGCAAGACG CAGTTTTAAT TGACAGTGAT GGGGTGCCAG TTGTTCTTCC 40501 CATGCTGGAA CAGTTGTGAT TCTTTACTGA GGACTGATGG GGGAAAGGAA 40551 GAATCACCTG GGGTGCATGT TAAGCCTTCA GCTGCTGGCA TCCTTGGAGA 40601 ATCTGATTCA GGTGGTCTGG GATAGGACTG AGGCGTGCAT GTGTCTAATA 40651 AGCTTCCCAG GTGATGTCTT TTCAAGGAGG CTGAGAAAAC ACTGGGCTGG 40701 AAAGCTGGGA CTCTTAAGTA GGATGCTGAT CCCAATCAGT GCTGCTCTTG 40751 CCTCAGAATC TGCAGTGGTG CTCATTAAAA ATTCAAATTC CAGGATCCCA 40801 TTCTTCAGAT TCTCTGATTA TTTAGGTCTT AAAAAGTTCC TCATTTATTT 40851 TGTTTGGTGA CCATTGGTAT AAATGAAGTC CATTATGCTT CCCATGTCTT 40901 AAGCCTGTCT TTGTGTGAAT CTTTTTCCTG CAGGACCTGA GTACTTCCCA 40951 GAATGCTTAA ACTTGATAAA AGATAAAAAC TTGTATAACG AAGCTCTGAA 41001 GTTATATTCA CCAAGCTCAC AACAGTACCA GGTATGTGGT ATGTGAAAAT 41051 GAGGCTCTCC TGGTTTTGCT TTTTGCTTTA GTAGGAAAGG AGTGAGGATC 41101 CTAAGTTCAT AACACCATCC TTGGCTTCAA AATTTATCTT AAAACTAATT 41151 AGCCTCAATT TGAACTTCTT ATCTGGGAGA ATGGTCCTGA CCTGTTCTCT 41201 GATTCCTCAT CTGGAATACC ACAGCACCTT CCTCGTGGGG TTCCCTGCTT 41251 CTTTCCCACC CCTCCTCTAG CCCAACCTTA CTGCTGTAAG TCTGATTATC 41301 CTAACAAGTA CAGATCTTTC CCATATATTT CAGCATAAAG GGAAATTTTT 41351 GTTTGCTTGA AAAAGCATCC CTTTAGCTTT TTTTATATAC CACACACTTT 41401 GCTTCTAAGT TAAATGTGTT ATATGATCCT CTTAACAGCC TCATAGGGTG 41451 CTGTACACAA TTTGTAGATG AGGAAGCAAC TTGCCTGAGG ATCCAGAGCT 41501 ACAAAGTGCT GGACCTGGGA TACAGAGCCC AGGCTGCCTG ACCACCCTGC 41551 CCATGCCATT AACCACCACT CTACCATGCC ACCAGCATCA CCATTTTCAG 41601 TTTGTCCTCA GACAATATAC ACATCTTTCT TTGATCAAGC CCCTGCCAGC 41651 TTCTTTAGCA CCAGCTTCTG CCACTGTCCA CATTCCCAGT TACTTGTAGG 41701 TAGTTCTACA GATGTCACAT CGTGTGATTC CTCTGTCATT TCTCTACCCA 41751 CCAGCCTTCC TTTAGCCCCA TTTGTCCATC AGAACCCTTG GGTTACTCCT 41801 GAATGCCATT CCTGGACCAG GCGCCAAACA CTGAGCCCCC AGAGCAGCCT

41851 GCCCTCGCCT TGGTGATTGC ATTTGTCAAA CTGCTGATTA GCTGGTTTTGT 41901 CACCTCCACC AGGCTGTGGG CTCCTTAAGG GCAGGGACTC CATGTTGTAT 41951 TCCTCTCTGA ATCTCTGGCT AACATCCAGC CTGGAGAATC GAGGATTTGG 42001 CCAGTGGATA CCTCTTTGCC CTTGTTTTCT GTTCTCTTCC ACACTCTCTC 42051 TGCTCTAGTC ACACTGGCCG TCCTGTTACT CCTCAGACCT GCTAT ACACA 42101 TTCCTGCTGC ATGGCCATGG TGCCTTCTGT GCCCTCTGCC TGGTGCCCCC 42151 TATCTCATCA CGTGGTTTAT TCTCCTGACA GCCATTAGAG CTCACACTCC 42201 CTGAGAGCTG CAAGGAGACT GTCCTCTGTC CCTTTACTCA CGTTTGCCAT 42251 TATGCTATAG ACTATATTTT GTCCCTAAGT CCATCCTCTG TTACTATAAG 42301 AGCAGCAACT TGGTGGTGGT TCTTATATGG TTTTTCATTT GTTTGGTTTTT 42351 ATTTTTTGCC TTGCTGTAGT ATCCATACTG CCCAGAATGG TGCATATGTA 42401 GTTAAGAGTA ATTATTTGTT GAGTGAATAA ATGGCACATC CTCAGTAAGG 42451 TTTTGAATGA AAAAATGACT GTACTAACTG ATCAACTGTA AGATT TTCCC 42501 AGGTAATTCT TTCAAGGGAG TTCCAAGTAT AGGAACTAAG GCAGCTACAC 42551 TGGAGCTTTA GAGAAATGAT TGTCATATTT CCTCCTCAGT CCTAAATCTC 42601 CTCTTGTCAC AGGATATCAG CATTGCTTAT GGGGAGCACC TGATGCAGGA 42651 GCACATGTAT GAGCCAGCGG GGCTCATGTT TGCCCGTTGC GGTGCCCACG 42701 AGAAAGCTCT CTCAGCCTTT CTGACATGTG GCAACTGGAA GCAAGCCCTC 42751 TGTGTGGCAG CCCAGCTTAA CTTTACCAAA GACCAGCTGG TGGGCCTCGG 42801 CAGAACTCTG GCAGGTAAGT ACAATCATTT ATATGTTTAC ATCTACAAAG 42851 GTTTTAAAAA ATTTATTTCT TTTGTTTGGT AATTTTGCAA ATAAATTTAG 42901 GGCAGAATAC TCTGAGACAG TCTTGTTCTC ACTGATAAAA ATTAATTTAG 42951 AATGCTTTAA AGGATAAGCT ACTACAGCAA GAGTCCCAGA ATGCAGTGGC 43001 CCAATATGGA AAGAAGTTTA TTTCTCTCTC CCATAGGGAT TTATAGGCCC 43051 TTCCGTTGTG TGGCTCTGCA ACCTTTTAGG CAGATGGTTG TAGCTGGGTT 43101 ATCTCCACAG CTGTGGGGAA GGAAGGAGAG TGGGGAGAAG TTAGAATCAT 43151 GGTAAAACAT TTACCTTTAA GTTGGAAATG ACCTGGATGG AAGTTAAACT 43201 ATCACCTTCT ATTCCATCTC GGCCACGCCA TGTAGCTGGA TGGGCTGTGC

43251 CCTGTAAGAA GGTAAAGATG AATTTTTGGA TGGGTCCATT CTGTTATAGA 43301 CAGTAGGTTG TTGGAATAGC CAGGAATGAG GTGGGGAAAA TAAAAGGCCA 43351 AATGTCGAAG CATTCTGAAA GCAAAGGCAG TTTAGCTGCG TCAGCGGACAA 43401 GGGTTGCCCG AACCAGAGGC GAGGCTGGTA CCAGGGGCTC TAG TACCAGA 43451 GTGGAGGAAA GGGTAAGGAC ACCTATGAAA AGAGATGAGC AGAAGCTCTG 43501 GTCATCTCAG CAGTGCTTGA AGTAAAGCAA TGACTGGTAT ATTITTTTCC 43551 CTAACTTGTA AATATTGTTG AGATCTCAAA GAAAAAAATA AAAAGCAGTC 43601 CTAAAAAAT TCCAAACTCT ATCCTGTTAA ATTTTGTTAA ATTTATGTAC 43651 CAGTCCTTCT TTGTCATTTG CAGTATTCTT TTTTTCTTGG GATTATACCA 43701 GTGTATGGGA TTATCACTTT TCTTTTTCTG GTTATTAGCC TTTCCCAAAT 43751 CCCTCCGTTT CCATGCTGGC CTCTTTTTAC AAATGTCGAG AATTCCTTAT 43801 TTCAGGCCTT TTAGTTATTC GTTCGGTCTC CATTGTTCCT TTCTGCTTTA 43851 GAAATTTATG ATATTGGTTG TTTATACCTT CTATCTCTGT TCTTGGATCT 43901 CTTCTATTCT TTACAGCTCT TAGCTTGCTA TTTCCCATGT CTTATGAGGG 43951 AGTATTTCTA GTTTTTCTCA GATGTTTAGC AAAAGTAGGT GGGGAGGGCA 44001 GTGGTCAAAG ATGTTTGAGA AATGTTACAC ACTGGAGTCA CTCTGTGTGT 44051 ACATTTAACG TAGGCAGTTT ACACAAGAGA GCAAAAGAAA GGTAACTATT 44101 TAAATAGTGG AGGTGATTTT ACCTACTTTT TTTAGTGATA TATGCACTGG 44151 AGTGAGCATG CAATGAGAGA CCGGAATCTA CCAGCTCCTT CGAAAGCCTT 44201 GGGTTCTCTG TGCCTCTCAT TGTGGTTTAT CTCAATTGGG CTGAGAGTGA 44251 TTCTAGGATC TAAAGACACT GCATGACTCA AACATAAGTC AGCTACCTCC 44301 ATCTAGTGCT CAACCAAAGA AATAGTGGTC TCTTACTGTT AAGGGACGAA 44351 GTGGTTTAGT GAGAGATACC AGGTCATTTT CCCATATACA TGCTTTGGAA 44401 GCATCTTTCA AGGCTAATTT TGGCTGTATA TGATTTTCAA TTCCTGTGCT 44451 AAATTTAGAT TCTAGCTGCC ATTTAAGATA GGACTCTGTG GTGTATATAC 44501 CTATTCCCTC ACAGAAATTC AGAAAGTACA TAGTTTCATA CATAATAAAG 44551 ACATATTAAA GAAGCACTTG AGCTAAAGTA TCTGTTTAAC TTTGTAGTCA 44601 ACTGCTGCTT ATTGTCTCTA CAGGAAAGCT GGTTGAGCAG AGGAAGCACA

44651 TTGATGCGGC CATGGTTTTG GAAGAGTGTG CCCAGGTAAA CTCAATTCCT 44701 CCCTTCTAAA CCCCCCAGTC AGCAAGAAAG GTCTTCTCAA TTGTATCTTA 44751 GTGATCATGA AAGTTAAAGG AACTGTGCAT AATTGTTAAG TCCAGAGATA 44801 GTGTTTGCCC CAGAGGTCTT ATCTTGCTGG CTTGACTTGG AAATCTAAAT 44851 TTAGTACATC TCTAAGTTTG GTGAGGTAGA ATATGAAGGT GCTCTACTTT 44901 AACATACCAC TGGTTTGACC TTGGTAGAAA GTACTTAATT ACATC TCAAG 44951 GTAGCTGTGC TTTTTAAAAT TGAGTTTGCC AAAGTAGAAA CAATGAGAAA 45001 GGACCATTAT AAAACAGGAT CATTGAAGGC TACATACTCT TGGCTTTTAC 45051 TCTCATTCTC CCTATTGGAA ATGTCTCTTT TACCTCAGGG ACCTGGAGGT 45101 ACAGCAGATT ATAAGGATAA GTACCCATAT GAGCATTTGG TAGTATTATA 45151 GGATTTATTA TGAAAATAAT AAAACTGCAG TAACACTGGC CACAGACTAA 45201 CAGTACACAG GTGCACAGTT GACACCAGGG ATTATTGCCT TGTAGAGTTT 45251 TGACCTTTGA TGAGAGAGTG TTTTTTACAG TTGTTACTGA TAGCACATTT 45301 ATGTAACTTA ATTGTGCTTT AAAAATATTT AATTGTCTCT TGTGTAATAA 45351 CAGTAAGTGA AAGACGATAA CTAAAATTTT ATATAATTAG ATCCTGGAGA 45401 GAATATTTGT TGGGTGATTG AATTGAAAAT ACCAGTGAAT GAAACATACC 45451 TAAAAGGGTA GATAGGTTGG GTTGGAAAGA TATACCACAT CGAGGGTTAA 45501 TTAAATGGAT AAGATGTCAT TATCTTTTTT TCTTTGTAAA GGAAGATTAA 45551 TGCATAAAAT TATTTTGTGT AATTTACATA CAATAAAATT ATGTGTTGTA 45601 CAGTTGTATA ATTTACATAT AATAAAGCTA ATTCACCAAT TTTAGATGAA 45651 GAATTCAGTA CATTTGGACA TATGTTTGTA GCTGTGTAAC CACCATTGCA 45701 CTCATGATCT AGAACATTTC TAACACCCCC AAAAGTTCCC TACTTCCCCT 45751 TTTGCAGTCA GCCTTCTCCC TCCACTGCCA GCCTTTGGCA AACTGATCAG 45801 TCAGTAAAGT TTCACATTAT CTAGAATTTC ATATAAACAG AACCATATGG 45851 TATGTAGTCT TTTTAATCTG GCTCCTTTCA CTCACATAGT GCATTGGAGA 45901 TGCATCCATG TTGTAGTTTA TTCCTTTGTA TTGCTGAATA GTATCCCATT 45951 ATATGTATAT GTCAGAATTT GTTGATTTAC CAGTTGATGT ACATTTGGAT 46001 TGTTTTCAGT TTGGGGTTAT TATGAATAAC GCAGCCATGA ACATTCTAGT

46051 GCAGGTCTTT ATGGGGACAG GAGTAGGAAT GCCACATCCC GTGGTAAGTG 46101 GATGTTTAAC TTTTTAGGAA GCTGCAGAAC TAATCTGCAG TGGCC GTATC 46151 ATTTTGCATT CCCCTCAGTG ATATGTGAGA GTGCTTCAGT GACTC CTATA 46201 CTCACCAACA CTGGGTGTAT TACTGTGACA CTAGATGTAT TATCTATTGC 46251 TACGTAACAA CTTACCTTAA AAGCTGGCAG CTTAAAACAA CAGAC CCTAT 46301 TATCCCACTT TTTCAATGGG CCAAGAATCT TGGCTGGGCT TAGCTGGGGC 46351 CTCTGGCTCA GGGTCCTTTA CAAGGCTGCA ATTAAGGTAT TGGC CAGGGC 46401 TAGAGTCATC TCAAGGCTTG ACTAGTTTTT AATTTCATTT TCTAATGTTT 46451 TATTACTAGT ATATAGAAAT ATAGCTGAAG TGTTTTGCAG GGAGGCTGTA 46501 TAATTGACCT TGTATCCTGC AACCTTGCTA AACTCATTTA TTAGTTCTAG 46551 AAGCTCTTGG GTGTATTCTC TAGGATTTTC TACATCAACA AACAT GGTTT 46601 CTATAAATAT AGTTTTATGT CTTTCTTACA ATCAATACTT TTTTCTATCT 46651 GTATTGCATT TTCTAGGGCT TCCAGTGTGG TGTTGAATAG AAGTGTTAAG 46701 AGTGAACATC CTTGCCTTTT TCCTGATATT GGAGAAAATT CACTTGTCTT 46751 TTAGCATTAA GTGTCATGTT TGCTTTTTTA AAATTTTATT CTATAT TATT 46801 TTATTTTTGA GACAGAGTCT TGCTCTGTCA CCCAGGCTGG AGTGCAGTGG 46851 TGTGATCTCA GCTCACTACA ACCTTGACCT CCTAGGCTCA AGCGATCCTC 46901 CCACCTCAGC CTCCTGAGTA GCTGGGACTG CAGGAACATG CCACCATGCC 46951 TGGCTAATTT TTGTATTTTT TGTAGGGATG GGGTTTTGCC ATGT TGCCCA 47001 GGCTGGTCTT GAACTGTTGG ATTCAAGCAA TTCGCCTGTC TCAGCCTCCC 47051 AAAGTGCTGG GATTACAGGC ATGAGCCTCC GTGCCTGGCC TGATATTTGC 47101 TTTTTTTT TTTTTAATG CTCTCTATTG CAGAGTTGGC AAACTACAAC 47151 CTGTGACAAA TCCAGCATGC CACCTGTTTT TGTAAATAAA GCTTTATTGG 47201 AGCATAGCCA TGCTCATTAG TTTACATCTT GTGTATGGCT GCTTTAACAC 47251 TACAGCAGCA GAGTTAGAGT TGTGACACAG ATAGTTTGGC CCATAAGGCC 47301 TATATTTACT GTCTAATCTT TTACAGGAAA AATTTGCCAA TTCCTGCCCT 47351 CTTGGTTTGA GGAAATTCCC TTCTGTTCCT TGTTCTGAGA GTTTGTATCA 47401 TGAATGGGTG TTAAATTTTG TCAAATGCAT TTTCAACTAT GAAGGGTTTT

47451 GTTTTAGAC GAGTGATATG GGGGACTAGG TGATTGATTT TCTACTGTTA 47501 AACCAACCTT GCATCTCTGG GTTCAACCCC ACTTGGTATT ATAGATTTAT 47551 TACCCTTTTT CTCTTGTGGC AGATTAGATC TACTAAAATT TTCTTGAGGA 47601 TTTTGTGTT TGTGTTCATG AGGGATATTG TAGTTTTTTC GTGTCT TTGC 47651 CATGTTTTGG GTATCAGGAT AATGCTGCTG TCATTGAGGG GTGACAAAA 47701 TGAGGGGTGG TGTCCTTTAC ACTTCTGTTT TCTGGAGGAT TTCAT GTAGA 47751 ATTGGTATGA GAGTCTAGCT TATGGTTAAA AACCTATGTG TGATGTTTCA 47801 GACCTGACCA TAAACAATTA CAGACTTTAC CTAGGAGGCC ACATGGGGAA 47851 AAGCTGCCCT CCCTACACCA GACTTGGCGT ACTGCCAATG CATTACAGTT 47901 TCTAAAGGGA GTTGCAGTCA AGGACTCAGG GCCCCCTGTT AGTCATGCTC 47951 TTGTAACAGT ATTTGCATTG AGAGTCCTGG CACTTTCATT CTTAGGTCTC 48001 TCTATCTGAG GACATGGGCC AAGGTCTTCT TCAGGCACCT CTGCCAAGGC 48051 CTGTTTATGC AAGAAGGAGT GGAAAAACCT TGACATTTTT TTCCACTGTG 48101 ACTCACTACC CAGTACTTTT CCACCCTTAG CCCCCTTCCT TTGCACCCAT 48151 ACCCCCAAGA TCCATCAAAC TGCTAAAGCC TTTTTTTCCA AGCTCCTTCA 48201 ACAGTGAACC AACCCTCATG TCTGTGTGGA TCCAGCTGAC TCTTGACTAG 48251 TGAGTTGTTC CTTGGGAAAA AATGGAACAG AGAGAGTTGG TGCTTTCCCT 48301 GGTTTTAGCC TCTTGCTTAT ACCAATGCAA TGCCTGAAGG CTTAATTCAT 48401 TTTCTCCCAG CTCTTGGGAG ATATTTTTT CTTTAAATGT TTAGTAGAAT 48451 ATACCAGTAA GGCCATCTCG GCCAGGAGTT TTCTTTAATG AAA GTTTTTC 48501 ACTATTAGTT CAGTTACTTT AGTAGACATT AACCTATTCA AGTTTATCTG 48551 TGTCTTCTGG AATGAGCATT GGTAGTTTAT GTCTTTCAAG TAAT TTGTTC 48601 ATTTCATCTA AATTGTCAGA TTTATTGGTA TGAAGTGTTT ATAGTATTCT 48651 CTTATTTTAC TGTCCGTAGG GTCTATGGTG ATGTCCTGTC TTTCATTGTA 48701 GATATTGATG TGTCTTCTTT TTTCTGATTA TTCTGGCCAG AGGTTTATCA 48751 ATTTTATTGA TCTTATTAAA GAATGAACTG TTTCATTGTT TTTCTCTATG 48801 ATTITICTGT ATTCTATATC ATTCTTTTT TATTATTTTA TTATTT TATT

48851 TGCTCTTTAT TTTTCTAGTT TCTTAAGGTG ATGGCTTACT TTTATTT TTT 48901 TCTTATTTT TTCTTTTGTT GTTGTTGTTT TTTTAAAGAA ACAGGGT CCC 48951 ACTCTTGCTC AGGCTGGAGT GCAGTGGCAC GATCATGGTT CACTGCAGTC 49001 TCAAACTCCT ACATTCAAGC TGTCCTCCCC CCTCAGCCTC CAGAGTAGTT 49051 GGGATTACAG GTGCATGCCA CCATGCCTGG CTAATTTTTA ATTIT TTTTG 49101 TAGAGATGGG GTGTTACTAG TTGCCCACGC TGGTCTGAAA CTCCTGGCCT 49151 CAAGTGATCC CTCCACCTCT GCCTCCCAAA GTGCTGGGAT TCCA TGTGTA 49201 AGCCACTGTG CCTGGCCAAG GTGATGGCTT AAAGCTATTG ATTT GAGATG 49251 ATTCCTTACT TTATAGTTTA AGCATATAAT GCCATAATTT TCCTCAAGCA 49301 CCGTTTTAGT TACGTTATAC AAATTTTGAA ATGTTTTGTT TTCATTTCCT 49351 AATTTCCCTT GTGATTTCTT TATTGAACCT TGGCTTATTT AGAAGTATGT 49401 TTAACTTGCA GATATTGGAG ATTTGCCAGC CATCTTTTTG TTATTAATTT 49451 CTACTTTAAT TTTGTTGTGA TTAGAGAACA TACATTTTAT TAATITAAAT 49501 TTATAATITA TTITAATITA TAATATGGTC TGTTTTACAG AATGITGTGT 49551 GTGTATTTGA AAATAATATG AAAGCTACTA TTATTGGATG GAGTGTTCTA 49601 TAAATGTCAG TTAGATTAGG TTGATCATGC TGTTCTAGCT TTTTATATCC 49651 TTATTGATTT CCTCACTACT TGCTCTATCA ATGACTGGGA AAGTGTTGAA 49701 GTCTCCCAGT ATTTGTCTAT TTCTCCTTTG ATTCTACCAG TGTTTGCTTA 49751 ATGTATTITG AAGCTCTGTT ATAGGTGCAT ACATGTTTAT GAGTATGTTA 49801 TAGATGTATT CATTTTGATA TCCTTCTTTC TCTGTTACTA TTCCTAATTC 49851 TGAATTTGAC TITAATGTTA TTAATATAAT TCTTCCAGCC TTCTCTTGGT 49901 TAGTCTTTC ATTGCATATC TTTTTCTATC CTTTTACTTT TAATCTAGCT 49951 GAATGTAGTC TTTATTTTGA AAGTGCGTTC CTTGTTGATA GCATTATTGG 50001 TTCTTTTTT TTTTAAATC TAATTTGACA ATCTCTGTCT TTTAATTGGA 50051 GGGTTTAGAC ATTTGCATTG AATGTGATTA CCAATATAGT TAGATTTAAA 50101 CCTACAGTCT TGCTGTTTGC TTTTTGTTTG TTTCATTGAT CCTTTGTTTC 50151 TTGTTTTTT CTTTTTTTGC TTTCCTTTGG ATTTAGTATT TTTCATAATT 50201 CCATTTTACC TCCACTGTTG GCTTATTAGC TATACTTCTT CATTTCAGTA

50251 TTTTAGTGGT TGCTGTAGGA TTTATAATAA ATATCATTAA CTGACCATAT 50301 CTTCAGATAA TCGTATACTA CTTCATATAT AGTGTAAAAA CCTTACAAGA 50351 GTATTCACTC CATAATACTT TGTTATTGCT TTTGCTTTAA GTGATCAATG 50401 ATTGTTTAAG GAAATTTTTT AATGACCTTT CATGTTTATT CTTTTTT TTT 50451 TTTTTCCAAA AGATTCAGTA TTTTCCGAGT TTTCAAAAAC TGCTGG CCAC 50501 TCAAAGTGGA TCAACAAAAA TTTAAGAGCT AAAACTGTAA AACTCTTGAA 50551 GGCTGGGCAC AGAGGTTCAT GCCTGTGATT CCAGCACTTT GAGA.AGCTGA 50601 GGTGGGACAA TCACTTGAGC CCAGGGGTTT GAGACCAGCC TGG GTAACAT 50651 AGAAAGACCT TGTTTCTACA AAAAATAAAA ACACAATTAG CCAGG CATGG 50701 CGGTGTGCAC CTGTAGTCCC AACTTCTTGG GAGGCCAAGG TGCCAGGATT 50751 TCCTGAGCCT GTAAGTTTGA GACTGCAGTG AGCTGAGTTC ACGCCACTGC 50801 ACTTCAGCCT GGACAACAGA ACAAGACCCT GTCTCAAAAC CAGAACGAAA 50851 CTATAAAACT CTTAGAAGAA AACAGGGCTA AATCTTCATG ACTTT GGATT 50901 TGGCAATGGA TGGTTAGAAT TAATACCAAA AACACAATCA ATAAATTGAT 50951 AAATTGGATT TAATAAAAAT TAAGAACTTT TGTGTATCAA GGACA TTGTC 51001 AAGAATGTGA AAAGACAGCA TATAGAATGG AAGAAGATAT TTGC.AAATCC 51051 TATATCTGAT AAAGGTTTAA TATCCAGAAT ATGTAAGGAA CTCCTGCAGC 51101 TCAACAACAG AAAGCCAGTT AAATCAATTT TGAAATGAGC AAACGCCTGT 51151 AAACCCAGCT GCTTGGCAGA TTGAGACAGG AGGATTGCTT GAGGCTAGGA 51201 GTTCAAGACC AACCTGGACA ACATAGTGAG ACCCTGTCTA AAAACATTTT 51251 TTTAATTAGC TGGGTGTGGT GGCATATTCC TGTAGTCCCA GCTACATGGG 51301 AGACCGAGGC AGGAGGATCA CTTGGGGCCA GGCAGTCAAG GCTGCCGTGA 51351 GCTGTGATTA TGCCACTGCA TCCCAGCCTG GGCGACAGAG TGAGACCCTG 51401 TCTGAGAAAA AAAAAAAAA AAGAACAAAA AAAAATTTAG AAGATTGCTA 51451 TTCTAGTCTA CTATTTTTC AAAGGGTGGT CTTGTTAACA ATTCTGGAGC 51501 CCACCTAAAC CTGCTAAATC AAACTTGGTA GTAAAGCTGG GGAGATGGGC 51551 ATGTCTAACA GACGTTTCTG GTGGTTTTGA TGTCCAGGCG TGCAGAGAGA 51601 TGATGCTTAC CTTGTGTTTT GTCATTATTT TCAGGATTTA CACCCCTTCC

51651 TTGTCTTTTG TATCAATATT TATGGAGTCA TGAACTCTAG GATAGG CATG 51701 ATGTTGAGAA CTAGGAGTTC TCCCCTGGCC AGGGAGATAG AGGC AGGTCT 51751 GTGGTTAGTT TTGTAGTTGG CTGTGATGAC ATCTGACATG CTCTC TTCAC 51801 TTGTTGTCTT CTTCCTGTTC CCTTGTCAGG ATTATGAAGA AGCTGTGCTC 51851 TTGCTGTTAG AAGGAGCTGC CTGGGAAGAA GCTTTGAGGC TGGT AAGAAT 51901 CTTGTAAATC CTCTGGATGT TGGGTGCTAA GCAGAGAGAG CAAGCAAGGG 51951 ATTCCAGGTC AGTTGGAATC TCTTGTCTTC TGAGGTTCAT GAAAT AAGTA 52001 GAAATAGGTC AGGTTCCTGG CTTAAGGAAA AGCGGTGTTA CTAAAATCAT 52051 TTTTATCATT CTTGATAATA ATTTGAAATA TTACTGTCTT TTACTGAAAT 52101 GAATTGAATT TCCTTGGCTG CCTTGTAGGA GGCCTGTTTT TCAGGAAAAT 52151 ATTCTGATTA CCTCTGAAAG TAATCCATGT CTTTCTAAGT ATCTTAACTC 52201 TCCAGTGACT AGAAGTTTTC CTTCCTAAAA TATCGTGTTT TTCCTTCTAG 52251 GTATGCAAAT ATAACAGACT GGATATTATA GAAACCAACG TAAAGCCTTC 52301 CATTTTAGAA GGTGAGGGTT CCATTTTAGA TAGAATTCCT CATTT GGAAG 52351 AAGGTGAGGA GAGAGAGATG AGAGAGTCTC CTCCTATTTA CTGTGTTTTC 52401 TTAATAATAT GTCATGTAGA CTCAATCAAA ATTACCACCT GGATATAATA 52451 TTTAATTCTC ACTAGAATTT TTAAATATGC TGAACTATTA AATGGTAACA 52501 AAATATTTAA ATGTTAGAAA CCTGTGATCA AATATGATTA AGAATCTTTG 52551 TATTTGGAAA TAGTAAACTT GAATATGAAC TATATTAGAT AATAA TATAA 52601 CACTGATAAA TTTCTGGCAT TTAATAATCA TGTTGTGGTT ATATAAGATA 52651 ATATCCTATT ATTCTCAAGA GATAAATGCT GAAATATTTA GGAATGAAGG 52701 ATCATATCTC TGCCTTACTC TTAAAAGGTT CCACAAAAGT ATTAATGAAT 52751 GTGTGTATGC ATGCAGAGAA ACAGGAAGCA AAAAAATGTC AAAATGTTAG 52801 TAATTGGTAA ATCAAAGTGA AGGGTATATG TGTGTTCATT GAACTCTTAC 52851 AACTTITATG TAGGTTTCAA CGTTTCAAAG TATTTTTTAA AAGTTACCTT 52901 TTCAAATGAA GTTTGTGGTT CTTAGAGAAC ATATGAATAT TACCAGTTCT 52951 AGAATACTCA GATGGTCACT GTGACCTCTT AAAAGCAAAG TGGAGAAGGA 53001 CATCAGTTTG ACTTATAGAA ACCTTAGGGA GTGGTTGATT TTAAGTTCTG

53051 CATTTTTATG CACATCTACC CTGTAAGTAA CGTCTGGCCT TTCTGACATT 53101 TACATGTATG CACATTCTTA CCTTGTCTGC ACCCCCTTCC TCCAT CCTAA 53151 TTAAAACGTT GCTGGGGTAC TTTTTATGTC ATTCACTTTA GGTACCTCTA 53201 ACTGGGTACT GAAAACATCA TTCCTCATCT ATAATAATCT AACCAGCTCT 53251 TACTTAGATT TTCACCACTA ATGAGAACCT TTCTTAGATA AATGCCGATA 53301 ATTCATCTAC ATAGGCCCAA AACCTATTAA TAAAATGCAT CCTTG GATAG 53351 TAGTATTTTG CTTTTTTAAA ATGTATTCTA CTAGTGTTAT TTTTCTCTTG 53401 TGTATTTTC CATTGGACAA TATTTATTAG ATACATTTTT TCCACA TCCA 53451 TGGGCATTTT GATGGATGTT TAGCCAGAAA CATTTAGGTA ATTTTCTTCT 53501 TATTTTTGTT AACTGAGCTC CCCTCCCCTA CCCCCCCTTT TTTTGTTTGT 53551 TTGTTTTGTT TGTTTGTTTG TTTTGCCAAT CCTCCCTTGC TTTAGGTATC 53601 AAGTCTTCGT TCAGGTGATT TTACAAGTTC AGTGGTAGCG CATATTCTGG 53651 GATAATGTTG ATGAACTCTA AGATCTGGAA TCTCAGTCTC TAATTTGTTA 53701 ATGCTTATTA AGGAAAAAGA GCTCGCTTGG AAAACCTAGT AACCTCTTTC 53751 TTTTGCTGA ATTTTAACCC TCCTTCACTG CTCCCCGCCT TTAGTTTTTT 53801 CTCTTTGCTT AAACCTCATG CTCAAACTAT TTTCCATTCT GCATCTCCAG 53851 CCCAGAAAAA TTATATGGCA TTTCTGGACT CTCAGACAGC CACATTCAGT 53901 CGCCACAAGA AACGTTTATT GGTAGTTCGA GAGCTCAAGG AGCAAGCCCA 53951 GCAGGCAGGT CTGGGTGAGT ATCTGCGTGA AGGCCATCGA CGTGCGGGGG 54001 CAGTGGGGTT GGGTAACGCC ACACATTGTC TAGATTGCTT GGTGATCCGC 54051 CTGCAATCTG ATTACTGTGC CATGGGCAAG TGTGAGGCTT CTGTGGAGCC 54101 CCTTCAGGGC CCTCTGTGTC TGTGTTTGTG TGTTGGTGAA GGGCAGGACC 54151 AAGCATGAAT GGGGAGAGCT CTGCCAGACA TTCCCACCTA CC CCCATTCA 54201 CCCAGAGCAG CTGACCACTT CCGTGTCTAA CAAAATGAGT TTCCTCATTT 54251 CCAGAAAAA GTTCAGGAAA CTACTGATTT ACATTAGTAA TTACTGTATT 54301 TAATATTATC TCATTCATTT TGAGATCAAC TTTGCAATCA TTTTCATCCA 54351 TCCTTTGATA TGCACCAGTT GACTCTAGTT AGTTCATTTA CCGCCCTGAA 54401 AGTAAACCCA CACATTAGCA GGCAGTGTTT TCATCGGCTT CTGGTTCTTC

54451 TTTTCTAGAT GATGAGGTAC CCCACGGGCA AGAGTCAGAC CTCTTCTCTG 54501 AAACTAGCAG TGTCGTGAGT GGCAGTGAGA TGAGTGGCAA ATACTCCCAT 54551 AGTAACTCCA GGATATCAGC GTACGTATCA CATTGATTCA GCACATTGAC 54601 TATATCCTGG GCATATAGGG AAAGTGGAAG CAAATAGATT GGTT TTCTAC 54651 TGGGACGGTG TAGTGGGAGT GGGGAGAATA TTCTTCAGCG CTGTGTGGAA 54701 GTTGTTCAGA CACTTTCCCA GCATATCTGA GACATTAAAC TTGGCATTGG 54751 AAGGTTTTCT TCCTCAGCTT TGTGGCTTGT GTGTTTTCCC ATTCC CCACG 54801 AGGCAGTTCC TCCCCTGAAT GCTCAGTTTA TATTAACATC TGATTTTATT 54851 TTTTGAACAA ATGTTGTGAC TAAATTATAG GCACTGAAAA AATGA.AAAGA 54901 TAAGCTTCTT CAATTCAAAA TCAGGATTGG AAGAGACCAT AAATGTAAAA 54951 TAAGTCATAA CACTTTTACC AAATATAGTA ATTTGTCAGA AATATTTATT 55001 CAGCACTCAT ATGGTAGGTG CAGTAGATGT TACCAAAAAC TTAT AAGGAG 55051 ATATGAGTTA TAAGAGTTTA TAGTCTTGCT TGGGATGTGT AAAGCAATGC 55101 AAGATTATAT ATTCAAACTG AATTTTGCTT TAGGAATTTA AAATGGAGAT 55151 CTGTGAAGTT GTGTGGGGTC ATCAGCAACT GCAAGAAAGT AGC CAGGCAA 55201 GGTAGCACAT GCCTGTAGTC CTAGCTACTC AGGAGGCTTA AAAATATCTG 55301 AGAAGCACAG CCTCAAAGAA GGCAGTCCGC TGGAGGACCT GGCCCTCCTG 55351 GAGGCACTGA GTGAAGTGGT GCAGAACACT GAAAACCTGA AAGGTATATT 55401 CTCAGTCCTG ATGATGATTC CTGACCACAA ACAATAGTGA ATAGGCAGTA 55451 CAGACAGGCA GAGTTCAGTA GGTGATTAAG CTACCATTTT CCCAATTTGA 55501 GGAAAGATGA GAACTTTTAG CAGGAAGGGT CATGTCTGCA CACATTCCTG 55551 AAGCAGCCCT TCTTAGCTGG TAACTGAGAA GCCTTCCTCC ATT TGGCATC 55601 CCCCTAACTG AACTGGGAGA GATGCTTAAG CCAGGATAAA GAATTGTGGG 55651 ACACTGCTTT CTGCGTAGGC CCCCCAGCGT GCTTGATTTT CTTTTTGTAG 55701 TACATGTGTT TAATTATTCC AGCATTTGGG AAGAAAAAG ATAATGTGGG 55751 AGAAAGGACC TGCAGTGGGA TCATAGAAAT TTTTGGCTTT GGATAGAAGC 55801 TATGTATGAT TCTGTCAATG GAGCTGGGAA TATAACTTAC CACTCTTTCA

55851 AATTTCTTCT CTCTAGATGA AGTATACCAT ATTTTAAAGG TACTCTTTCT 55901 CTTTGAGTTT GATGAACAAG GAAGGGAATT ACAGAAGGCC TTTGAAGATA 55951 CGCTGCAGTT GATGGAAAGG TCACTTCCAG AAATTTGGAC TCTTA.CTTAC 56001 CAGCAGAATT CAGCTACCCC GGTAAGTTTT CTCAGAGACG GTGTGCATTT 56051 TITTCATCAT TITCATGGGT TATTGTATTC ACACAATCTC CAAGTCAAAA 56101 AGTTTTCCTG TTCTTAAAAC ATAAGATGCC ATAGTTAAAT TATCTTAGCA 56151 TTTATGTGTA AGCTGTCAGT AAGATTTGAT ATTTGCCTGT AGAGTGACTA 56201 GTATACCTTG GCATAGGTTA AATGGACTGT CATTTTCCTT TCTGGATGAA 56251 GTAGCTGTCA TGGAGAAAAT GGGAAAGTCA CATGATTGCT CCTGGCCTTC 56301 AATGAGGTTG GAGTGGGGAG AGATGGGGGA AGATGGGGTC AGAGACGGCC 56351 TCTCACTTTC CTTTCAGAAC TCAGGGATGG GATCAGGCTT TAAAGGGACC 56401 CCAGGCAATT GCTTTTCCTT TTGTTTTATG AAAAATTTGA CTTGTCACTT 56451 CTATGTTGTT ATGATGGACT TTGCGGGTTG TGTTTAAGGC TGAATCAGCT 56501 TTGTATCGCA GAATTCTAGT ATATTGTCAT CTGTTTATTA TTTATACCTC 56551 TGTTCACTCT CTTATACTTC AAGTCTATTG TTAAGAGTTT TTATTTGGAT 56601 TCAAAAAGGC TGGTGTATCA GTCAAGATCT AGAAAGGAAA ACAAAAGCCT 56651 ATCTATTATT TTATCACAGA ATTTAATATA TGGATTTGTT AAATAAGTAT 56701 TAGAGGACTA AACAAGGCAA AAGGGAAATA CAGAGGAAGG ACATTGAGAT 56751 AGTAACTGTA GGAAGCAGCT TTACCCTCTA GCTGAGGGAA CAGGAGGAGT 56801 TGTTGGGAAT TATTAGAATT TAGAAGCCTG GAAGTGGGGC CCTGTAGAGC 56851 TGGCTCTTGA ACCTCTGAGA GGAGGGTGCC AGCCAGCTAA TCCTGGCATT 56901 TCTGAGGGAG CTGGTTCCAA GCGTACAGAA GTAAATGGAA ACTGGAAGGA 56951 ACAGCTGCTG CTGGGGGAAA AGCCAGCCGG TCGGGCCAGG TGTGGTGGTG 57001 GCTCACGCCT GTAATCCCAG CACTTTGGGA GGCCAAGGCA GGCGGATCAC 57051 CTGAAGTCAG GAGTTCGTGA CTAATGTGGC CAACATGGAG AAGCCCCGTC 57101 TCTACTAAAA ATACAAAATT ACCCGGGCAT GGTGGCGCAT GCCTGTAATC 57151 CCAGCTACTC AGGAGGCTGA GGCAAGAGAA TCGCTTGAAC CTGGGAGACA 57201 GAGGTTGTGA TGAGCCAAGA TCGTGCCATT GTACTCCAAC CTGGGCAGCA

57251 AGAGCGAATC TCCGTTTAAA AAAAAAAAA AAAAAGCCAG CCAATCACGG 57301 AAGAAATCTA GAAATCTTTT GTTCATCCTC CAGCTTTGTA CTCCCCCTCT 57351 GGTGTTCACT GTAGGCAGGA CATGATGGGA AGCCAGCAGC AAGGAAGAAT 57401 ATCTTTCAGG TGCCCAGCCC CAGCACCACA AGCAGTGGAT AGAA GGGTGG 57451 GTTGGAGCTG AGAGATTACA AATCAGCTCA GTGTTTAGAA ACACATACGC 57501 TTATCATGTC TTGATTTCCT CATTTAGAAA TGGGCATAAG ACTTCTCTGT 57551 GTGCTTCAAT AGAATGCTTT GAAGGTTAAA TAAGAGGGTG TGTGTAAAAG 57601 CACTITACAA ACCGTTGAAA TAAAAGCAAC TAGGAATCAG GGCCCCAGAA 57651 CTTCTTGAAT TTATTATAAT AGGTATTTCT TAGAAGAAAT GTGATCATCA 57701 TCTTCAAAAC TGTAGTACTT TTGAAGATAA TTGTTTTTGT TTTTTGAGAC 57751 AGGGTCTCAC TCTGTTGCTC AGGCTGGAGT GCAGTGATCA CCGCTCACTG 57801 CAGCATCCAC CGCCCGGGC TCAGGTGATC CTCCCACCTC AGCCTCTTGA 57851 GTAGCTGGGA CTACAGGCGC ATGCCACAAC ACCTGGTTAA TTT TCAAATT 57901 TTCTGTAGAG ACAGGGTGTC ACCAAGTTGT CCCCGCTGGT CTTGAACAAC 57951 TCCTGGGCTC AAGTGGTCTG CCCACCTCAC CTCTCCAAAG TGCTGGGACT 58001 ATAGGCATCA GCCACCATGC CCGGCTTGAA GATAATAATT TATAATACCA 58051 CTCCCATGAG TGATCTTCTC TTCTGATCAC ATATTCACAT TAAGGTCTAT 58101 TTTATTTTAT TTTTTCTTG CTCTGTCACC CAGGCTAGAG TGCAGTGACA 58151 GTATGATCAA TCATGGCTTG GTGCAGCCTC GAATGCCTGG GCTAAAGCAG 58201 TCCTCCCACC GCAGTCTCCT GAGTAATTGG GACCACGGT GCACACCACC 58251 ATGCCCAGCT AATTTTAAAA TTTTTTCCTA GACATGGGGA GAGGGAGTCT 58301 TGCTGTGTTG CCCAAGCTGG TCTTGAACTC CTGGCCTCAA GTGATCCTCC 58351 TGCCTTGGCC TCCCAAAGTG CTGAGATTAC AGGTGTAAGC CACCATGCCT 58401 CCCACATTAA GTTCTAAGAC ATCAATTTTA TGATTGTGGT TTTGATTGGT 58451 GAAGTATGGT TGTGGTATGT GCAGGATACC GTGAGTGACT TCTCATGGCA 58501 TTGCTCTTGA GAGTGTGCCA CCAAGGGTCT GCACTAACCA GGGGTGTGCC 58551 CAGAGGCTCG CTGCAGGCTT GAAATTCCTG CGGAGTCTTG TGTTTTACCT 58601 GGAGCACATG TGCACAGTTT CCATTCTGCT CCATAGTATG CACATGTTTG

58651 TATTTATTTC AACCTAAAAA TGTTTGTTTC CCATAACTCT TTGCGTA.TAA 58701 TTGATACTCT ACGTATTTGT AGCCTCTTTT ACTCTTTTCC CTTTCCTCAG 58751 GGAGTGGTTT GCTCATTTAG AAAAGGCCAA GATATATCAC TGTAGAGTTT 58801 CGTTTCTTTT CTTTTCCTCC ACCCCCCATC TTTACCTTGT TCTGGGAGAA 58851 AGGAGAATTA GAAGTCTGAG TTGCAGCTGG AGAAACTGGC AAAT TAAAAT 58901 CACATTGGGA AAGAGAATTA CTGTGTTTCA CACCATACCA GTAGAAATGA 58951 CAGGCTGTTT TCTGCTGGTA GGGATTTGGC CTTTGGTATT GGCAGTCTTG 59001 AGAAGTATTA GATAATCTTT GCTGATACAG TCTATTTTCT CCTCAGGTTC 59051 TAGGTCCCAA TTCTACTGCA AATAGTATCA TGGCATCTTA TCAGC AACAG 59101 AAGACTTCGG TTCCTGTTCT TGGTTAGTAT TTTTTCTCAT TTAATATTAC 59151 AATACTAAGC AGAAGGACTA TCTTTCTGTA AGTATTGAGA AGATCAGCAG 59201 TATAAGGAGA GATTGGATAC AATTTTTCAC TACAAAAAAT TGACTACAAT 59251 TCTTCCTCAA TTCTAAGACC GCATCTTTAG TATGATCAGT TTCATGCTTC 59301 TAGCGGTGGG GGACCTGGTG CAGGAAAATC CAGCATGACC ATTGTATGTG 59351 TAATTTTTAA AAATATTTAT GTGGCATATG CTTGTTCATA AAGGCACACC 59401 ACAGTTCCAG TTTCAGTCTA AACTGTCTAC ATTTACATAT ACATCAAAAG 59451 ATTCTTCTGA AGCATCATTA CTGGCTATTG GCAGTTATGC TTTGCATCTT 59501 GGGGGCATTT TCATAAACCT TGCTTATGAG TGGGACCTTT TTAT TATGTT 59551 TAGGATTGAC AATATAATTT GAAGGCAAAT CCAAAGAATA TTAGCATTTT 59601 ATACATATTT CCTGTTTAGT TATGCATGAA GTGTTTTATT TGTTGAGGGG 59651 AGATGATTCT CAATTAGATT ACTTATTTCC CTAAAAATTA AAAAC CCTAA 59701 GCGCTTTCTT TTGAAAGTTG GTTAGAAACA TTTGATGAGT CAGCTTGGGA 59751 CTTTCAGTAT TTGCCCTTAC TTATAGTTGG ATCAATGAAG CATCTTAGCT 59801 TTGAAAAGTG AATGATAGTT TCTAAAATAA TTGGCAGTTT TAACTGCTAT 59901 CGAAGTGCTA CACTGTAATA GCATTTTGAT GACATTTGAA GTAGCCTGTG 59951 GGGATTCAAA TTAAGTTTGA CTTTAACAGC TTATGTTGCT ACCAGGAAGA 60001 ACAGCTACCT TCCATCCCAG CTAAACTCAT ACATCCAGAC TGTAACTACT

60051 GTATTCCTAG CTCCTCTTCT GTCTAGAGAA TGGCAAGGTT CTTTTGGTAT 60101 GCAGTTTCGA CATATCCACT TATTCCTTTT TTTTTCTTAA GTTTTTT CAT 60151 TTAGAAAAAA AAACAGATGG GGTCTTAATA TGTTGCCCAG GCTGGTCTCA 60201 GCCTCCTGGT CTCAAGTGAT CCTCCTGCCT CGGCCTCCCA AAGT GCTGGG 60251 ATTACAGGCG TCTGCCCCTG TGCCCAGCCC ACTTATTTCC CAGATGCTAG 60301 GAACTTACAT TAGACCTGAG GCCATTTGGT CATTGTTTAT TTTGTGCTGT 60351 AGTCCAATCC AGTTGTGATT TCTGCCTCCT GTGTTCCTCG TTGCTGGCCT 60401 GATGCTGACC TTCAGGTTAG GTCAGTCCCA TCATTCCCCA GGGTATTCTA 60451 GATGGCTTTC CCACTTCAAA GAGCACTTTC TTGTTTTCCA GCTGAGCCTT 60501 AAAGACACTC TGTAATATTT GAGAGCCCCT CATTATCTGA GTGTTTATTA 60551 TCATTACCCT TGTGGTTTCA AGGATGTATA GGAAAAGGTA AGTTCCTATA 60601 ATTCAAAAAT TGCCACTGAT GAACTAATCA CAAAATTAGT GCCACTCAAA 60651 TATTACTCAG CTGCCCCTCC CCAGCTAACA ATAGTTAAGT ATATTGGCAC 60701 ATCCCCACAA GTGAAATCAA TGACTTGATG GGTCATTTCT GATTGTTTCC 60751 TGCTTTGATG CAATACAATA TCATGCAGAT CAATTGCAAG TCTTGCAAAA 60801 ATTTAGTATT ACATAAAATA GATTAAAATG ATATTGGAAA AGTAC TTGAA 60851 TCACAGCTGG GTTGGACTTG TTGCAATTGA TGACAAAATA AGTGCTTCAA 60901 ATGATTTTGA CTATCAAAGG ATTGAGAGAG GTCCTTAGAA AAATTGAAAA 60951 GCCCTCAAGT TATTTTTATA AAAATGGCCT TTTTTGTGTG CTGTGAAATC 61001 CACATATGGA AATGTGAAAT ATGTCATGTC CTGCTGTCAT ATAATTTGTC 61051 AGAATAATTA CTTTCTTGCC CAAAAGTCTG TACTTTGTGT TTATTTCAAG 61101 TTAAGTCTAG AATCAAATAT AGTTGTAGTT ATGCCTAATT TTAAAAAATG 61151 AGATAGAGCA CATTATTTT GTAACTAGTT TTTTTTTTT TTTTCAGAC 61201 AGAGTCTTGC TCTGTGGCCC AGGCGGGAGT GCAGTGGCGC AATCTCGGCT 61251 CACTGCAAGC TCCGCCTCCC GGGTTCACGC CATTCTCCTG CCTCACCCTC 61301 CTGAGTAGCT GGGACTACAG GCGCCCGCCA TCACGCCCGG CTAATTTTTT 61351 TGTATTTTTA GTAGAGACGG GGTTTCACCG TGTTAGCCAG GATGGTCTCG 61401 ATCTCCTGAC CTCGTGATCC ACCCGCCTCG GCCTCCCAAA GTGCTGGGAT

61451 TACAAGCGTG AGCCACCGCG CCCGGCCTGT AAATAGTTTT TTTAAGATAA 61501 AGTCTTATTC CAACTTTAAT TGGAATTTAT GAAATACCTT GTTGATAGTG 61551 AATTTATTTA AGTAGCCTTT TTTCAGTATT GATATTCTTA TATCTTTATG 61601 GCACCATTTA GTGGAGAGAA ATGTAAACAA ACATAAAGAT GTAGTATTAA 61651 ATCATAACTG CATAAAATTA ACTGTAGTAT GTACTGCACT ACTGTAATAA 61701 TTTTGTAGCT ACCTCCTGTT GCTATTGTGG TGAGTGAGCT CAAGTGTTAC 61751 CAATATCTGC TTAAAATGCC ATGTGCCGCT AACCATCTCC ACATGAGCAG 61801 CACATGAGAG TCTCCATTAA TTGCATATGG CAGCGAAAAG TGATCTCTTG 61851 CATTGTCGTG TATTTTTTAT CACGTTTAAT GTAATATCGT AAACCTTAAA 61901 TAACACCATG AGACCTATAG GAAGTACCAC AAGTGTTGCT CCCAGGAAGC 61951 AGAGAAAAGT CATAACATTA CAAGAAAAAG TTGACTTGCT CGATATGTAC 62001 TATAGATTGA GGTCTGCAGC TGTAGTTGCC CACCACTTCA AGATAAATGA 62051 ACCCAGTGCA AGGACTATTA TAAAAGAAAA GGAAATTTAT GAAGCTGTCA 62101 CTGCAGTTAT GCCAGCAGGC ATGAAAACCT TGTACTTTTT GCAAAATACC 62151 TTTTTATGTT GTATTGAAGA TGCAGCTTTT ATGTGGGTGC AGGATTGCTA 62201 TGAGAAAGGC ATACCTATAC AACTATTATG ATTTGAGAAA AAGCACAGTC 62251 ATTGTATGAG AACTTAAAGC AAAAAGATGA AGGATCAAAG CTGGAGAATT 62301 TAATGCCAGC AAAGGATGGT TTGATAATTT TAGAAAGAGG TTTGGCTTTG 62351 TAAATGTCTG GATAATAGGA AAAGCAGCTC CTGCCATCCA GGAGGCAGCA 62401 GCAAAGGCAG TCAGGTTTAT GATCAGGACT GCCCTTATCT GTAAAGCTGC 62451 TAACCCCGA GCCTGGAAGG GAAAAGATTA ACACCAGCTG CCAGGCTTTT 62501 GGTTGTACCA TACAACAAGA AGGCTTGGAC AAGGAGAACA CTTTTTCTGG 62551 ATTGGTTCCA TTGTCGATTT GTCCCTGAAG TTAAGTAGTA TCTTGCCAGT 62601 AAGGGGACTG CCTTTTAAAG TTCTTTTGAT ACTGGAGAAT GCCCGAGGCC 62651 ACCCCAAACT CCATGAGTTC AACACCGAAG ACATTGAAGT GATCTACTTG 62701 CCCCCAAACA CACATCTCTA ATTCAGCCTC TAGATCAGGG TGTCATAAGG 62751 ACCTTTAAGG CTCGTTACAA ACAGTACTCT ATAGAAAGGA TTGTCAAATG 62801 TATGGAAAAG AACCTTGACA GAACATGAAA GTCTGAAAGA ATTACACCAT

62851 CAATGATGCC ATCATTGTTA TAGAAAAAGC TGTGAAAGCC ATCAAGCCCA 62901 GGACAATAAA TTCCTGCTAG AGAAAACTGT GTCCAGATGT GCATGACTTC 62951 ACAGGCTTTA CGACAGCCAA TCAAGGAAAT CATGAAAAAG ATTGT GGATC 63001 TGGCACAAAA AAAAAAAAAA AAAAAAAAA TGGTGCATGA AGGAT TTCAA 63051 GATAGGAATC TTGGAGAAAT TCAAGAGGTG ATAGACATCA CACCGGAGGA 63101 ATTAACAGAA GATGACTTGA TGGAGATGAG TACTTCCAAA CCAGCGCCAG 63151 ACAATGAGGA AGATTACATA AAAGAAGCAG TGCCAGAAAA TAAATTGACA 63201 TTTGTTCCAA AGGTTCCAAT TATTCAAGAC TGCCTTTGGC TTCTT TTACA 63251 ACATGGATGA TTCTATGTTA TGGGCACTGA AACTAAAAGA AACTGTGGAA 63301 GGATTGGTAC CTTAGAGAAA TGAAAAAGCA AAAACATCAG AAAT TATGGT 63351 GTATTTCTGT AAAGTTAGTG ACACTGAGTG TGCCCACCTC TCTTGCCTCC 63401 TCTTTAACCT CCCCTACCTG TTTCATCTCT ACCACCCCTG AGACAGCAAG 63451 ACCAACCCCT CCACTTCCTC CTCTACTTCA GCCTACTCAA CGTG GAGATG 63501 ACAAAGATGA AGACCTTTAT GATGATCCAC TTCCATTTAA TGAATAGTAA 63601 TTATTGTAGG AATGTAGTAT ATAATACATA TAACATACAA AACATTTGTT 63651 AACTGACTTT TTATGCTGCC AATACACTGC CGAACAACAG TAAG CTATTG 63701 GTACTTGAGT TTTGGAGATT CAGAAGTTAA ACATGGGGCC AGGTGTGGTG 63751 GCTCACACCT GTAATCCCAG CACTTTGGGA GGCTGAGGTG GGTGGAACGA 63801 GACCAGGAGT TTTGAGAGTA GCCTGGGCAG CATGGTGAAA CCTTGTCTCT 63851 ACAGAAATTA GCCAGGTATG GTGGTGTACA CTTGTAGTCC CAGCTACTTG 63901 GGAGGCTGAG GCAGGAGAAT CGCTTGAACC CAGGGGGTCG AGGCTGCAGT 63951 GAGTCATGAT CGTGCCACTG CACTCCAACC TGGGCAACAA AATGAGACCC 64001 TGTCTCAAAA AAAGAAAAAA AAAAGGTATA TGCAGATTTT TGACTGTGCA 64051 GGGGGGTCCG CACCCATAAC CCTACATTCA AGGATCAACT GTAATTTTTC 64101 ATGCCTGCAT GGCTCATATG TACAGATTTA CTGCTGGAAG TTTATCATAA 64151 ATAATGCTGA AAAAGAAAAT CCTTATATAT ACATATTTTC TCCTATCTCT 64201 GCTTGCAGTA TATGATTCCT GGTTAGAAAA GAAACTTAAC AAATCTAAGT

64251 GAAAGAGTGC CTGGGAGTTT TAGGTTACAA TGACAGAATC TTTTCCTAAC 64301 CCTCTCTCTC CATTCACTTT TTTTAAAGCA GGGGCATCTT TATTGATCAA 64351 CATGTTTGTC GAAGTTCAT CATAAAGTAG TTCCTGTCCA TTAACTT CAC 64401 TTACTGAATA TGTGCTATCA CATTTTGCTA TTCCTTAAAA ATTGAGCTAG 64451 ACTITACATA TAGTGAAATG CAGAGATTTC AGGTGTACAA TTTGAT GAGT 64501 TITAATAAAT GTATACAGCC ATGTGACTGC TGCCACCACC CCTCC CACCA 64551 GTTTGAAATA CAGAACATTC TTCCACTTTG AATCACTGGG TGAGCATGCC 64601 TGAGGTTGAA ATGCAGTCCC TCCTCTCAGG GCGGGGCCTC CAGGTTGTGT 64651 TTGCTCTGAC CTGGAGGTTG CAGGGGTAGC AGACACATGA ACTCTGGCTC 64701 TGATGGTCTT ATTGCTGCAA ACTCCACCTG CCTAGTTTGT TTAGT TTAGA 64751 GTTACTGCCT CAGCGCCCTC CAACAAGAGT ATGTCTGTCA CAAT TTCCCT 64801 TCCTTTCTTG CTTTTAGATG CTGAGCTTTT TATACCACCA AAGATCAACA 64851 GAAGAACCCA GTGGAAGCTG AGCCTGCTAG ACTGAGTGAC TGC.AGTTAGG 64901 AGGGATCCGA CAGAGAAGAC CATTTCCACT CATTCCTGTT GTCC TACCAC 64951 CCCTTGCTCT TTGAGGGCTG GCTATTGAGA ACTGGAAAGA GTAAAATGAT 65001 AACTTACCTT AGCATTGCCA AGAACTTCAG CAGACAACAA GCAATTCTAT 65051 TTATTTTATG TTGTGTATAC ATCTTGATCA TTAGCAAGAC ATTAAGCTTT 65101 AACCATTATG GCACCATTTT GTGAGAATGA TTGTTCTTTC ACTTGGGCTG 65151 TTTGAGAGCA TAATTATGGT AATCATGAGA TTAATGTTTC ATGAT TTCTA 65201 CCTCCAAAGT GTGAAGACAA GTAAAACAAT GTTTCTAAAT TGTCTTATTT 65251 TGTTGGCGGA GAAGATTACA ATGGCTATTA GTGCTACATT TGGTCAAATG 65301 TAATCACTTA AATAGCTTCT TGTCACCTTA AACTAAAGCA GAATAAAAAG 65351 TATCCTTTGA AATTATAAGC CCTCCTTTGC TGACAGCTAT TATTT TGTAA 65401 CATCTTACCA GGTCATGTGC TTTCAGTTAT AACTGGGCTG AGCCTCCTAT 65451 AATTACAATG TCTATAGGGA CTGTTTTACT GCCTGTGTAT TTTCTGCTAG 65501 AGAGTTAGCA ATGTTAGAGC TAGAACAGAT TAGAATTTCT AAACAGTATC 65551 ATGCACAGTT GGTGTGAGTG ATCAGTGTGC ATTGTATGGC ATGCATGGTT 65601 GTGAATTATT CTCTGTTCTC CAAATACTGT TTCTTTAACT CAGATATTTT

65651 TGTTAGTGTC TAGGCCACTT CATTTATTTT TCGTCATGGT ACTTTACTGA 65701 CTTCTCTTTA TTCAATTCTC CACGCCCTCA CCAAAAAAAA CTGTCTCAAA 65751 ATGAGAATAT TITATTITCA TGGTGAGTCT AGAAAACGCC CACTTCATTC 65801 TGATTAAAAA TTCTTCCATG TTTTAAATAT CAGAACCAGA CCTTTCTTAC 65851 TGTGTATCTT AGCCCATTTG TGTCTCTATA ACAACAACCA GCTTTC AAAG 65901 GAACTAATAG AGTGAAAACT CACTCATTAC CACGAGGATG GCACAAGCGA 65951 TTCACGTAGG ATCTGCCCCT GTGACCAAAA CACCTCCCAT TGGGCCCCAC 66001 TTCCAACACT GGTGATCACA TTTCAACATG AGGTTTAGGG AAACA.AATGC 66051 CTAAACTACA GCACTGTACA TAAACTAACA GGAAATGCTG CTTTTGATCC 66101 TCAAAGAAGT GATATAGCCA AAATTGTAAT TTAAGAAGCC TTTCCCAGTA 66151 TAGCAAGATG TTAACTATAG AATCAATCTA GGAGTATTCA CTGTAAAATT 66201 CAACTTTTCT GTATGTTTGA ACATTTTCAC AATCTCATAG GAGTTTTTAA 66251 AAAGAAGAGA AAGAAGATAT ACTITGCTTT GGAGAAATCT ACTTTTTGAC 66301 TTACATGGGT TTGCTGTAAT TAAGTGCCCA ATATTGAAAG GCTGCAAGTA 66351 CTTTGTAATC ACTCTTTGGC ATGGGTAAAT AAGCATGGTA ACTTATATTG 66401 AAATATAGTG CTCTTGCTTT GGATAACTGT AAAGGGACCC ATGCTGATAG 66451 ACTGGAAATA GAAGTAAATG TGTTTATTG